

1N-82
116850

578 p

NASA PATENT ABSTRACTS BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY
SECTION 2 INDEXES

(NASA-SP-7039(41)-Sect-2) NASA
PATENT ABSTRACTS BIBLIOGRAPHY: A
CONTINUING BIBLIOGRAPHY. SECTION 2:
INDEXES (SUPPLEMENT 41) (NASA)
578 p

N92-31455

Unclas

00/82 0116850

ACCESSION NUMBER RANGES

<i>Bibliography Number</i>	<i>STAR Accession Numbers</i>
NASA SP-7039(04) SEC 1	N69-20701 - N73-33931
NASA SP-7039(12) SEC 1	N74-10001 - N77-34042
NASA SP-7039(13) SEC 1	N78-10001 - N78-22018
NASA SP-7039(14) SEC 1	N78-22019 - N78-34034
NASA SP-7039(15) SEC 1	N79-10001 - N79-21993
NASA SP-7039(16) SEC 1	N79-21994 - N79-34158
NASA SP-7039(17) SEC 1	N80-10001 - N80-22254
NASA SP-7039(18) SEC 1	N80-22255 - N80-34339
NASA SP-7039(19) SEC 1	N81-10001 - N81-21997
NASA SP-7039(20) SEC 1	N81-21998 - N81-34139
NASA SP-7039(21) SEC 1	N82-10001 - N82-22140
NASA SP-7039(22) SEC 1	N82-22141 - N82-34341
NASA SP-7039(23) SEC 1	N83-10001 - N83-23266
NASA SP-7039(24) SEC 1	N83-23267 - N83-37053
NASA SP-7039(25) SEC 1	N84-10001 - N84-22526
NASA SP-7039(26) SEC 1	N84-22527 - N84-35284
NASA SP-7039(27) SEC 1	N85-10001 - N85-22341
NASA SP-7039(28) SEC 1	N85-22342 - N85-36162
NASA SP-7039(29) SEC 1	N86-10001 - N86-22536
NASA SP-7039(30) SEC 1	N86-22537 - N86-33262
NASA SP-7039(31) SEC 1	N87-10001 - N87-20170
NASA SP-7039(32) SEC 1	N87-20171 - N87-30248
NASA SP-7039(33) SEC 1	N88-10001 - N88-20253
NASA SP-7039(34) SEC 1	N88-20254 - N88-30583
NASA SP-7039(35) SEC 1	N89-10001 - N89-20085
NASA SP-7039(36) SEC 1	N89-20086 - N89-30155
NASA SP-7039(37) SEC 1	N90-10001 - N90-20043
NASA SP-7039(38) SEC 1	N90-20044 - N90-30170
NASA SP-7039(39) SEC 1	N91-10001 - N91-21058
NASA SP-7039(40) SEC 1	N91-21059 - N91-33053
NASA SP-7039(41) SEC 1	N92-10001 - N92-22095

This bibliography was prepared by the NASA Center for AeroSpace Information operated for the National Aeronautics and Space Administration.

NASA SP-7039 (41)

July 1992

NASA PATENT ABSTRACTS BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY
SECTION 2 INDEXES



National Aeronautics and Space Administration
Scientific and Technical Information Program
Washington, DC

1992

This supplement is available from the National Technical Information Service (NTIS), Springfield, Virginia 22161, price code A25.

INTRODUCTION

Several thousand inventions result each year from the aeronautical and space research supported by the National Aeronautics and Space Administration. The inventions having important use in government programs or significant commercial potential are usually patented by NASA. These inventions cover practically all fields of technology and include many that have useful and valuable commercial application.

NASA inventions best serve the interests of the United States when their benefits are available to the public. In many instances, the granting of nonexclusive or exclusive licenses for the practice of these inventions may assist in the accomplishment of this objective. This bibliography is published as a service to companies, firms, and individuals seeking new, licensable products for the commercial market.

The *NASA Patent Abstracts Bibliography (NASA PAB)* is a semiannual NASA publication containing comprehensive abstracts and indexes of NASA-owned inventions covered by U.S. patents and applications for patent. The citations included in *NASA PAB* were originally published in NASA's *Scientific and Technical Aerospace Reports (STAR)* and cover *STAR* announcements made since May 1969.

For the convenience of the user, each issue of *NASA PAB* has a separately bound Abstract Section (Section 1) and Index Section (Section 2). Although each Abstract Section covers only the indicated six-month period, the Index Section is cumulative covering all NASA-owned inventions announced in *STAR* since 1969. Thus a complete set of *NASA PAB* would consist of the Abstract Sections of Issue 04 (January 1974) and Issue 12 (January 1978) and the Abstract Section for all subsequent issues and the Index Section for the most recent issue.

The 131 citations published in this issue of the Abstract Section cover the period January 1992 through June 1992. The Index Section references over 5200 citations covering the period May 1969 through June 1992.

ABSTRACT SECTION (SECTION 1)

This *PAB* issue includes 10 major subject divisions separated into 76 specific categories and one general category/division. (See Table of Contents for the scope note of each category, under which are grouped appropriate NASA inventions.) This scheme was devised in 1975 and revised in 1987 in lieu of the 34 category divisions which were utilized in *PAB* supplements (01) through (06) covering *STAR* abstracts from May 1969 through January 1974. Each entry in the Abstract Section consists of a *STAR* citation accompanied by an abstract and, when appropriate, a key illustration taken from the patent or application for patent. Entries are arranged by subject category in order of the ascending NASA Accession Number originally assigned for *STAR* to the invention. The range of NASA Accession Numbers within each issue is printed on the inside front cover.

Abstract Citation Data Elements: Each of the abstract citations has several data elements useful for identification and indexing purposes, as follows:

- NASA Accession Number
- NASA Case Number
- Inventor's Name
- Title of Invention
- U.S. Patent Application Serial Number
- U.S. Patent Number (for issued patents only)
- U.S. Patent Office Classification Number(s)
(for issued patents only)

These data elements are identified in the Typical Citation and Abstract and in the indexes.

INDEX SECTION (SECTION 2)

The Index Section is divided into five indexes. These indexes are cross-indexed and are used to locate a single invention or groups of inventions.

Subject Index: Lists all inventions according to appropriate alphabetized technical term and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Inventor Index: Lists all inventions according to alphabetized names of inventors and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Source Index: Lists all inventions according to alphabetized source of invention (i.e., name of contractor or government installation where invention was made) and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Number Index: Lists inventions in order of ascending (1) NASA Case Number, (2) U.S. Patent Application Serial Number, (3) U.S. Patent Classification Number, and (4) U.S. Patent Number and indicates the related Subject Category Number and the Accession Number.

Accession Number Index: Lists all inventions in order of ascending Accession Number and indicates the related Subject Category Number, the NASA Case Number, the U.S. Patent Application Serial Number, the U.S. Patent Classification Number, and the U.S. Patent Number.

HOW TO USE THIS PUBLICATION TO IDENTIFY NASA INVENTIONS

To identify one or more NASA inventions within a specific technical field or subject, several techniques are possible with the flexibility incorporated into the *NASA PAB*.

(1) *Using Subject Category:* To identify all NASA inventions in any one of the subject categories in this issue of *NASA PAB*, select the desired Subject Category in the Abstract Section (Section 1) and find the inventions abstracted thereunder.

(2) *Using Subject Index:* To identify all NASA inventions listed under a desired technical subject index term, (A) turn to the cumulative Subject Index in the Index Section and find the invention(s) listed under the desired technical subject term. (B) Note the indicated Accession Number and the Subject Category Number. (C) Using the indicated Accession Number, turn to the inside front cover of the Index Section to determine which issue of the Abstract Section includes the Accession Number desired. (D) To find the abstract of the particular invention in the issue of the Abstract Section selected, (1) use the Subject Category Number to locate the Subject Category and (2) use the Accession Number to locate the desired invention within the Subject Category listing.

(3) *Using Patent Classification Index:* To identify all inventions covered by issued NASA patents (not including applications for patent) within a desired Patent Classification, (A) turn to the Patent Classification Number in the Number Index of Section 2 and find the associated invention(s), and (B) follow the instructions outlined in (2)(B), and (D) above.

TYPICAL CITATION AND ABSTRACT

NASA SPONSORED

ACCESSION NUMBER → **N92-16026*** National Aeronautics and Space Administration. ← CORPORATE SOURCE
 Ames Research Center, Moffett Field, CA.

TITLE → **TOUGHENED UNI-PIECE FIBROUS INSULATION Patent**

INVENTORS → **DANIEL B LEISER**, inventor (to NASA), **MARNELL SMITH**, inventor (to NASA), **REX A. CHURCHWARD**, inventor (to NASA), and **VICTOR W. KATVALA**, inventor (to NASA) 7 Jan. 1992
 10 p Filed 18 Jan. 1989

NASA CASE NUMBER → **(NASA-CASE-ARC-11888-1; US-PATENT-5,079,082;**

US PATENT APPLICATIONS → **US-PATENT-APPL-SN-298149; US-PATENT-CLASS-428-307.7;**

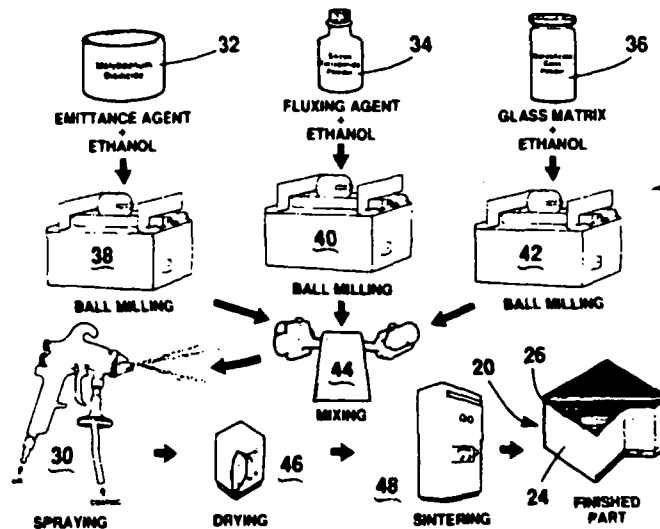
SERIAL NUMBERS → **US-PATENT-CLASS-428-325; US-PATENT-CLASS-428-446;**
US-PATENT-CLASS-428-920; US-PATENT-CLASS-501-39;
US-PATENT-CLASS-501-54; INT-PATENT-CLASS-B32B-5/14)

AVAILABILITY SOURCE → Avail: US Patent and Trademark Office CSCL 11D ← COSATI CODE

A porous body of fibrous, low density silica-based insulation material is at least in part impregnated with a reactive boron oxide containing borosilicate glass frit, a silicon tetraboride fluxing agent and a molybdenum silicide emittance agent. The glass frit, fluxing agent and emittance agent are separately milled to reduce their particle size, then mixed together to produce a slurry in ethanol. The slurry is then applied to the insulation material and sintered to produce the porous body.

ABSTRACT

Official Gazette of the U.S. Patent and Trademark Office



KEY ILLUSTRATION

Subject Categories

(1969 - 1973)

01 Aerodynamics

Includes aerodynamics of bodies, combinations, internal flow in ducts and turbomachinery; wings, rotors, and control surfaces. For applications see: 02 Aircraft; and 32 Space Vehicles. For related information see also: 12 Fluid Mechanics; and 33 Thermodynamics and Combustion.

02 Aircraft

Includes fixed-wing airplanes, helicopters, gliders, balloons, ornithopters, etc.; and specific types of complete aircraft; e.g., ground effect machines, STOL, and VTOL; flight tests; operating problems; e.g., sonic boom; safety and safety devices; economics; and stability and control. For basic research see: 01 Aerodynamics. For related information see also: 31 Space Vehicles; and 32 Structural Mechanics.

03 Auxiliary Systems

Includes fuel cells, energy conversion cells, and solar cells; auxiliary gas turbines; hydraulic, pneumatic and electrical systems; actuators; and inverters. For related information see also: 09 Electronic Equipment; 22 Nuclear Engineering; and 28 Propulsion Systems.

04 Biosciences

Includes aerospace medicine, exobiology, radiation effects on biological systems; physiological and psychological factors. For related information see also: 05 Biotechnology.

05 Biotechnology

Includes life support systems, human engineering; protective clothing and equipment; crew training and evaluation, and piloting. For related information see also: 04 Biosciences.

06 Chemistry

Includes chemical analysis and identification; e.g., spectroscopy. For applications see: 17 Materials, Metallic; 18 Materials, Nonmetallic; and 27 Propellants.

07 Communications

Includes communications equipment and techniques; noise; radio and communications blackout; modulation telemetry; tracking radar and optical observation; and wave propagation. For basic research see: 23 Physics, General; and 21 Navigation.

08 Computers

Includes computer operation and programming; and data processing. For applications, see specific categories. For related information see also: 19 Mathematics.

09 Electronic Equipment

Includes electronic test equipment and maintainability; component parts; e.g., electron tubes, tunnel diodes, transistors, integrated circuitry; microminiaturization. For basic research see: 10 Electronics. For related information see also: 07 Communications; and 21 Navigation.

10 Electronics

Includes circuit theory; and feedback and control theory. For applications see: 09 Electronic Equipment. For related information see specific Physics categories.

11 Facilities, Research and Support

Includes airports; lunar and planetary bases including associated vehicles; ground support systems; related logistics; simulators; test facilities; e.g., rocket engine test stands, shock tubes, and wind tunnels; test ranges; and tracking stations.

12 Fluid Mechanics

Includes boundary-layer flow; compressible flow; gas dynamics; hydrodynamics; and turbulence. For related information see also: 01 Aerodynamics; and 33 Thermodynamics and Combustion.

13 Geophysics

Includes aeronomy; upper and lower atmosphere studies; oceanography; cartography; and geodesy. For related information see also: 20 Meteorology; 29 Space Radiation; and 30 Space Sciences.

14 Instrumentation and Photography

Includes design, installation, and testing of instrumentation systems; gyroscopes; measuring instruments and gauges; recorders, transducers; aerial photography; and telescopes and cameras.

15 Machine Elements and Processes

Includes bearings, seals, pumps, and other mechanical equipment; lubrication, friction, and wear; manufacturing processes and quality control; reliability; drafting; and materials fabrication, handling, and inspection.

16 Masers

Includes applications of masers and lasers. For basic research see: 26 Physics, Solid-State.

17 Materials, Metallic

Includes cermets; corrosion; physical and mechanical properties of materials; metallurgy; and applications as structural materials. For basic research see: 06 Chemistry. For related information see also: 18 Materials, Nonmetallic; and 32 Structural Mechanics.

18 Materials, Nonmetallic

Includes corrosion; physical and mechanical properties of materials; e.g., plastics; and elastomers, hydraulic fluids, etc. For basic research see: 06 Chemistry. For related information see also: 17 Materials, Metallic; 27 Propellants; and 32 Structural Mechanics.

19 Mathematics

Includes calculation methods and theory; and numerical analysis. For applications see specific categories. For related information see also: 08 Computers.

20 Meteorology

Includes climatology; weather forecasting; and visibility studies. For related information see also: 13 Geophysics; and 30 Space Sciences.

21 Navigation

Includes guidance; autopilots; star and planet tracking; inertial platforms; and air traffic control. For related information see also: 07 Communications.

22 Nuclear Engineering

Includes nuclear reactors and nuclear heat sources used for propulsion and auxiliary power. For basic research see: 24 Physics, Atomic, Molecular, and Nuclear. For related information see also: 03 Auxiliary Systems; and 28 Propulsion Systems.

23 Physics, General

Includes acoustics, cryogenics, mechanics, and optics. For astrophysics see: 30 Space Sciences. For geophysics and related information see also: 13 Geophysics; 20 Meteorology; and 29 Space Radiation.

24 Physics, Atomic, Molecular, and Nuclear

Includes atomic, molecular and nuclear physics. For applications see: 22 Nuclear Engineering. For related information see also: 29 Space Radiation.

25 Physics, Plasma

Includes magnetohydrodynamics. For applications see: 28 Propulsion Systems.

26 Physics, Solid-State

Includes semiconductor theory; and superconductivity. For applications see: 16 Masers. For related information see also: 10 Electronics.

27 Propellants

Includes fuels; igniters; and oxidizers. For basic research see: 06 Chemistry; and 33 Thermodynamics and Combustion. For related information see also: 28 Propulsion Systems.

28 Propulsion Systems

Includes air breathing, electric, liquid, solid, and magnetohydrodynamic propulsion. For nuclear propulsion see: 22 Nuclear Engineering. For basic research see: 23 Physics, General; and 33 Thermodynamics and Combustion. For applications see: 31 Space Vehicles. For related information see also: 27 Propellants.

29 Space Radiation

Includes cosmic radiation; solar flares; solar radiation; and Van Allen radiation belts. For related information see also: 13 Geophysics; and 24 Physics, Atomic, Molecular, and Nuclear.

30 Space Sciences

Includes astronomy and astrophysics; cosmology; lunar and planetary flight and exploration; and theoretical analysis of orbits and trajectories. For related information see also: 11 Facilities, Research and Support; and 31 Space Vehicles.

31 Space Vehicles

Includes launch vehicles; manned space capsules; clustered and multistage rockets; satellites; sounding rockets and probes; and operating problems. For basic research see: 30 Space Sciences. For related information see also: 28 Propulsion Systems; and 32 Structural Mechanics.

32 Structural Mechanics

Includes structural element design and weight analysis; fatigue; thermal stress; impact phenomena; vibration; flutter; inflatable structures; and structural tests. For related information see also: 17 Materials, Metallic; and 18 Materials, Nonmetallic.

33 Thermodynamics and Combustion

Includes ablation, cooling, heating, heat transfer, thermal balance, and other thermal effects; and combustion theory. For related information see also: 12 Fluid Mechanics; and 27 Propellants.

34 General

Includes information of a broad nature related to industrial applications and technology, and to basic research; defense aspects; information retrieval; management; law and related legal matters; and legislative hearings and documents.

TABLE OF CONTENTS

Revised Subject Categories
(Includes 1974 and 1987 revisions)

AERONAUTICS For related information see also *Astronautics*.

01 AERONAUTICS (GENERAL)

02 AERODYNAMICS

Includes aerodynamics of bodies, combinations, wings, rotors, and control surfaces; and internal flow in ducts and turbomachinery. For related information see also *34 Fluid Mechanics and Heat Transfer*.

03 AIR TRANSPORTATION AND SAFETY

Includes passenger and cargo air transport operations; and aircraft accidents. For related information see also *16 Space Transportation* and *85 Urban Technology and Transportation*.

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION

Includes digital and voice communication with aircraft; air navigation systems (satellite and ground based); and air traffic control. For related information see also *17 Space Communications, Spacecraft Communications, Command and Tracking* and *32 Communications and Radar*.

05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE

Includes aircraft simulation technology. For related information see also *18 Spacecraft Design, Testing and Performance* and *39 Structural Mechanics*. For land transportation vehicles see *85 Urban Technology and Transportation*.

06 AIRCRAFT INSTRUMENTATION

Includes cockpit and cabin display devices; and flight instruments. For related information see also *19 Spacecraft Instrumentation* and *35 Instrumentation and Photography*.

07 AIRCRAFT PROPULSION AND POWER

Includes prime propulsion systems and systems components, e.g., gas turbine engines and compressors; and onboard auxiliary power plants for aircraft. For related information see also *20 Spacecraft Propulsion and Power*, *28 Propellants and Fuels*, and *44 Energy Production and Conversion*.

08 AIRCRAFT STABILITY AND CONTROL

Includes aircraft handling qualities; piloting; flight controls; and autopilots. For related information see also *05 Aircraft Design, Testing and Performance*.

09 RESEARCH AND SUPPORT FACILITIES (AIR)

Includes airports, hangars and runways; aircraft repair and overhaul facilities; wind tunnels; shock tubes; and aircraft engine test stands. For related information see also *14 Ground Support Systems and Facilities (Space)*.

ASTRONAUTICS For related information see also *Aeronautics*.

12 ASTRONAUTICS (GENERAL)

For extraterrestrial exploration see *91 Lunar and Planetary Exploration*.

13 ASTRODYNAMICS

Includes powered and free-flight trajectories; and orbital and launching dynamics.

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)

Includes launch complexes, research and production facilities; ground support equipment, e.g., mobile transporters; and simulators. For related information see also *09 Research and Support Facilities (Air)*.

15 LAUNCH VEHICLES AND SPACE VEHICLES

Includes boosters; operating problems of launch/space vehicle systems; and reusable vehicles. For related information see also *20 Spacecraft Propulsion and Power*.

16 SPACE TRANSPORTATION

Includes passenger and cargo space transportation, e.g., shuttle operations; and space rescue techniques. For related information see also *03 Air Transportation and Safety* and *18 Spacecraft Design, Testing and Performance*. For space suits see *54 Man/System Technology and Life Support*.

17 SPACE COMMUNICATIONS, SPACECRAFT COMMUNICATIONS, COMMAND AND TRACKING

Includes telemetry; space communications networks; astronavigation and guidance; and radio blackout. For related information see also *04 Aircraft Communications and Navigation* and *32 Communications and Radar*.

N.A.—no abstracts were assigned to this category for this issue.

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE

Includes satellites; space platforms; space stations; spacecraft systems and components such as thermal and environmental controls; and attitude controls. For life support systems see *54 Man/System Technology and Life Support*. For related information see also *05 Aircraft Design, Testing and Performance*, *39 Structural Mechanics*, and *16 Space Transportation*.

19 SPACECRAFT INSTRUMENTATION

For related information see also *06 Aircraft Instrumentation* and *35 Instrumentation and Photography*.

20 SPACECRAFT PROPULSION AND POWER

Includes main propulsion systems and components, e.g., rocket engines; and spacecraft auxiliary power sources. For related information see also *07 Aircraft Propulsion and Power*, *28 Propellants and Fuels*, *44 Energy Production and Conversion*, and *15 Launch Vehicles and Space Vehicles*.

CHEMISTRY AND MATERIALS

23 CHEMISTRY AND MATERIALS (GENERAL)

24 COMPOSITE MATERIALS

Includes physical, chemical, and mechanical properties of laminates and other composite materials. For ceramic materials see *27 Nonmetallic Materials*.

25 INORGANIC AND PHYSICAL CHEMISTRY

Includes chemical analysis, e.g., chromatography; combustion theory; electrochemistry; and photochemistry. For related information see also *77 Thermodynamics and Statistical Physics*.

26 METALLIC MATERIALS

Includes physical, chemical, and mechanical properties of metals, e.g., corrosion; and metallurgy.

27 NONMETALLIC MATERIALS

Includes physical, chemical, and mechanical properties of plastics, elastomers, lubricants, polymers, textiles, adhesives, and ceramic materials. For composite materials see *24 Composite Materials*.

28 PROPELLANTS AND FUELS

Includes rocket propellants, igniters and oxidizers; their storage and handling procedures; and aircraft fuels. For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *44 Energy Production and Conversion*.

29 MATERIALS PROCESSING

Includes space-based development of products and processes for commercial application. For biological materials see *55 Space Biology*.

ENGINEERING For related information see also *Physics*.

31 ENGINEERING (GENERAL)

Includes vacuum technology; control engineering; display engineering; cryogenics; and fire prevention.

32 COMMUNICATIONS AND RADAR

Includes radar; land and global communications; communications theory; and optical communications. For related information see also *04 Aircraft Communications and Navigation* and *17 Space Communications, Spacecraft Communications, Command and Tracking*. For search and rescue see *03 Air Transportation and Safety*, and *16 Space Transportation*.

33 ELECTRONICS AND ELECTRICAL ENGINEERING

Includes test equipment and maintainability; components, e.g., tunnel diodes and transistors; microminiaturization; and integrated circuitry. For related information see also *60 Computer Operations and Hardware* and *76 Solid-State Physics*.

34 FLUID MECHANICS AND HEAT TRANSFER

Includes boundary layers; hydrodynamics; fluidics; mass transfer and ablation cooling. For related information see also *02 Aerodynamics* and *77 Thermodynamics and Statistical Physics*.

35 INSTRUMENTATION AND PHOTOGRAPHY

Includes remote sensors; measuring instruments and gauges; detectors; cameras and photographic supplies; and holography. For aerial photography see *43 Earth Resources and Remote Sensing*. For related information see also *06 Aircraft Instrumentation* and *19 Spacecraft Instrumentation*.

36 LASERS AND MASERS

Includes parametric amplifiers. For related information see also *76 Solid-State Physics*.

37 MECHANICAL ENGINEERING

Includes auxiliary systems (nonpower); machine elements and processes; and mechanical equipment.

38 QUALITY ASSURANCE AND RELIABILITY

Includes product sampling procedures and techniques; and quality control.

39 STRUCTURAL MECHANICS

Includes structural element design and weight analysis; fatigue; and thermal stress. For applications see *05 Aircraft Design, Testing and Performance* and *18 Spacecraft Design, Testing and Performance*.

GEOSCIENCES For related information see also *Space Sciences*.

42 GEOSCIENCES (GENERAL)

43 EARTH RESOURCES AND REMOTE SENSING

Includes remote sensing of earth resources by aircraft and spacecraft; photogrammetry; and aerial photography. For instrumentation see *35 Instrumentation and Photography*.

44 ENERGY PRODUCTION AND CONVERSION

Includes specific energy conversion systems, e.g., fuel cells; global sources of energy; geophysical conversion; and windpower. For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *28 Propellants and Fuels*.

45 ENVIRONMENT POLLUTION

Includes atmospheric, noise, thermal, and water pollution.

46 GEOPHYSICS

Includes aeronomy; upper and lower atmosphere studies; ionospheric and magnetospheric physics; and geomagnetism. For space radiation see *93 Space Radiation*.

47 METEOROLOGY AND CLIMATOLOGY

Includes weather forecasting and modification.

48 OCEANOGRAPHY

Includes biological, dynamic, and physical oceanography; and marine resources. For related information see also *43 Earth Resources and Remote Sensing*.

LIFE SCIENCES

51 LIFE SCIENCES (GENERAL)

52 AEROSPACE MEDICINE

Includes physiological factors; biological effects of radiation; and effects of weightlessness on man and animals.

53 BEHAVIORAL SCIENCES

Includes psychological factors; individual and group behavior; crew training and evaluation; and psychiatric research.

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT

Includes human engineering; biotechnology; and space suits and protective clothing. For related information see also *16 Space Transportation*.

55 SPACE BIOLOGY

Includes exobiology; planetary biology; and extraterrestrial life.

MATHEMATICAL AND COMPUTER SCIENCES

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)

60 COMPUTER OPERATIONS AND HARDWARE

Includes hardware for computer graphics, firmware, and data processing. For components see *33 Electronics and Electrical Engineering*.

61 COMPUTER PROGRAMMING AND SOFTWARE

Includes computer programs, routines, algorithms, and specific applications, e.g., CAD/CAM.

62 COMPUTER SYSTEMS

Includes computer networks and special application computer systems.

1101

63 CYBERNETICS

Includes feedback and control theory, artificial intelligence, robotics and expert systems. For related information see also *54 Man/System Technology and Life Support*.

64 NUMERICAL ANALYSIS

Includes iteration, difference equations, and numerical approximation.

65 STATISTICS AND PROBABILITY

Includes data sampling and smoothing; Monte Carlo method; and stochastic processes.

66 SYSTEMS ANALYSIS

Includes mathematical modeling; network analysis; and operations research.

67 THEORETICAL MATHEMATICS

Includes topology and number theory.

PHYSICS For related information see also *Engineering*.

70 PHYSICS (GENERAL)

For precision time and time interval (PTTI) see *35 Instrumentation and Photography*; for geophysics, astrophysics or solar physics see *46 Geophysics*, *90 Astrophysics*, or *92 Solar Physics*.

71 ACOUSTICS

Includes sound generation, transmission, and attenuation. For noise pollution see *45 Environment Pollution*.

72 ATOMIC AND MOLECULAR PHYSICS

Includes atomic structure, electron properties, and molecular spectra.

73 NUCLEAR AND HIGH-ENERGY PHYSICS

Includes elementary and nuclear particles; and reactor theory. For space radiation see *93 Space Radiation*.

74 OPTICS

Includes light phenomena and optical devices. For lasers see *36 Lasers and Masers*.

75 PLASMA PHYSICS

Includes magnetohydrodynamics and plasma fusion. For ionospheric plasmas see *46 Geophysics*. For space plasmas see *90 Astrophysics*.

76 SOLID-STATE PHYSICS

Includes superconductivity. For related information see also *33 Electronics and Electrical Engineering* and *36 Lasers and Masers*.

77 THERMODYNAMICS AND STATISTICAL PHYSICS

Includes quantum mechanics; theoretical physics; and Bose and Fermi statistics. For related information see also *25 Inorganic and Physical Chemistry* and *34 Fluid Mechanics and Heat Transfer*.

SOCIAL SCIENCES

80 SOCIAL SCIENCES (GENERAL)

Includes educational matters.

81 ADMINISTRATION AND MANAGEMENT

Includes management planning and research.

82 DOCUMENTATION AND INFORMATION SCIENCE

Includes information management; information storage and retrieval technology; technical writing; graphic arts; and micrography. For computer documentation see *61 Computer Programming and Software*.

83 ECONOMICS AND COST ANALYSIS

Includes cost effectiveness studies.

84 LAW, POLITICAL SCIENCE AND SPACE POLICY

Includes NASA appropriation hearings; aviation law; space law and policy; international law; international cooperation; and patent policy.

85 URBAN TECHNOLOGY AND TRANSPORTATION

Includes applications of space technology to urban problems; technology transfer; technology assessment; and surface and mass transportation. For related information see *03 Air Transportation and Safety*, *16 Space Transportation*, and *44 Energy Production and Conversion*.

SPACE SCIENCES For related information see also *Geosciences*.

88 SPACE SCIENCES (GENERAL)

89 ASTRONOMY

Includes radio, gamma-ray, and infrared astronomy; and astrometry.

90 ASTROPHYSICS

Includes cosmology; celestial mechanics; space plasmas; and interstellar and interplanetary gases and dust. For related information see also *75 Plasma Physics*.

91 LUNAR AND PLANETARY EXPLORATION

Includes planetology; and manned and unmanned flights. For spacecraft design or space stations see *18 Spacecraft Design, Testing and Performance*.

92 SOLAR PHYSICS

Includes solar activity, solar flares, solar radiation and sunspots. For related information see *93 Space Radiation*.

93 SPACE RADIATION

Includes cosmic radiation; and inner and outer earth's radiation belts. For biological effects of radiation see *52 Aerospace Medicine*. For theory see *73 Nuclear and High-Energy Physics*.

GENERAL

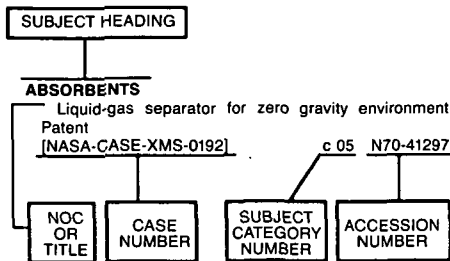
Includes aeronautical, astronautical, and space science related histories, biographies, and pertinent reports too broad for categorization; histories or broad overviews of NASA programs.

99 GENERAL

Section 2 • Indexes

SUBJECT INDEX	A-1
INVENTOR INDEX	B-1
SOURCE INDEX	C-1
CONTRACT NUMBER INDEX	D-1
NUMBER INDEX	E-1
ACCESSION NUMBER INDEX	F-1

Typical Subject Index Listing



The subject heading is a key to the subject content of the document. A brief description of the document, e.g., title, title plus a title extension, or notation of content (NOC), is included for each subject entry to indicate the subject heading context; these descriptions are arranged under each subject heading in ascending accession number order. The case number serves as the prime access number to the patent documents. The subject category number indicates the category in Section 1 (Abstracts) in which the patent citation and abstract are located. The accession number denotes the number by which the citation is identified within the subject category.

A

ABERRATION

- High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
- Control system for ruling blazed, aberration corrected diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N92-10186

ABILITIES

- Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

ABLATION

- Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
- Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
- Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475
- Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
- Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
- Ablative system
[NASA-CASE-LEW-10359] c 33 N72-25911

ABLATIVE MATERIALS

- Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
- Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
- Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
- Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032
- Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623
- Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834

- Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
- Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947
- Ablative system
[NASA-CASE-LEW-10359] c 33 N72-25911
- Ablative system
[NASA-CASE-LEW-10359-2] c 33 N73-25952
- Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796
- Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
- Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
- Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
- Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
- Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376
- Sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N92-16123

ABORT APPARATUS

- Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846

ABRASION

- Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
- High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043

ABRASION RESISTANCE

- Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581
- Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
- Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
- Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
- Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
- Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112

ABRASIVES

- Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491

ABSORBENTS

- Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
- Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
- Noncontaminating swabs
[NASA-CASE-MFS-18100] c 15 N72-11390
- Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
- Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
- Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

ABSORBERS (EQUIPMENT)

- Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
- Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982

ABSORBERS (MATERIALS)

- Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
- Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
- Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185

- Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
- Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236
- Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
- Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953

ABSORPTION

- Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
- Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1-CU] c 35 N86-29174

ABSORPTION COOLING

- Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159

ABSORPTION CROSS SECTIONS

- Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348

ABSORPTION SPECTRA

- Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
- Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006

ABSORPTION SPECTROSCOPY

- Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264

ABSORPTIVITY

- Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c 35 N76-29551
- Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
- Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N91-28321

AC GENERATORS

- Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
- Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
- Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
- Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
- Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660

ACCELERATED LIFE TESTS

- Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261

ACCELERATION

- Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27699

ACCELERATION (PHYSICS)

- Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
- Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196
- Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
- Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
- Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
- G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
- Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

ACCELERATION PROTECTION

- Universal pilot restraint suit and body support therefor Patent
[NASA-CASE-XAC-00405] c 05 N70-41819
- G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268

ACCELERATION STRESSES (PHYSIOLOGY)

Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881

ACCELERATION TOLERANCE

Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185

ACCELERATORS

Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417

ACCELEROMETERS

Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969
Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627

Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410

Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c 17 N76-29347

Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395

ACCEPTABILITY

III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

ACCEPTOR MATERIALS

Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583

ACCIDENT PREVENTION

CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

ACCOMMODATION

Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256

ACCUMULATORS

Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747
Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Method for fabricating solar cells having integrated collector grits
[NASA-CASE-LEW-12819-2] c 44 N79-18444

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

ACETYLENE

Dicyanocetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500

Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040

Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516

Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907

Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545

N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419

ACIDS

Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562

ACOUSTIC ATTENUATION

Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432

Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652

Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N91-27913

ACOUSTIC DUCTS

Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418

ACOUSTIC EMISSION

Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966

Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822

Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808

ACOUSTIC EXCITATION

Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

A method and apparatus for indicating disbands in joint regions
[NASA-CASE-LAR-14626-1] c 38 N92-17859

ACOUSTIC IMPEDANCE

Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733

Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933

Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145

Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822

Lamina transducer coupler and method of making
[NASA-CASE-LAR-14361-1] c 71 N91-16707

A method and apparatus for indicating disbands in joint regions
[NASA-CASE-LAR-14626-1] c 38 N92-17859

ACOUSTIC LEVITATION

Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767

Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086

Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515

System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516

Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846

Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940

Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233

Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568

High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105

Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1-CU] c 71 N85-29693

Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718

Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551

Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241

Stabilization and oscillation of an acoustically levitated object
[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236

Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422

Acoustic controlled rotation and orientation
[NASA-CASE-NPO-16995-1-CU] c 71 N90-12289

Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807

Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808

Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551

Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241

Stabilization and oscillation of an acoustically levitated object
[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236

Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422

Acoustic controlled rotation and orientation
[NASA-CASE-NPO-16995-1-CU] c 71 N90-12289

Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807

Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808

ACRYLONITRILES

Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789

ACTIVATED CARBON

Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
Purification system
[NASA-CASE-MSC-21584-1] c 25 N91-24362

ACTIVATION ENERGY

Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Method of making emt cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034

ACTIVE CONTROL

Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562
Multi-degree of freedom, active vibration control method, and system
[NASA-CASE-LAR-14508-1-CU] c 39 N92-10202
Active control of pressure loads using passive porosity
[NASA-CASE-LAR-14594-1] c 34 N92-17888

ACTUATION

Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

ACTUATOR DISKS

Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323

ACTUATORS

Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078
Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635
Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754
Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195
Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456
Rotary actuator
[NASA-CASE-NPO-10244] c 15 N72-26371
Gas operated actuator
[NASA-CASE-NPO-11340] c 15 N72-33477
Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467
Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060
Dual output variable pitch turbopump actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426
Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338

Solar powered actuator with continuously variable

auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
Linear force device
[NASA-CASE-MSC-20549-2] c 35 N88-24927
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616
Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N91-21539
Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N91-21824
Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N91-23493
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380
Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-31656
Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N91-32509
Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N91-32511
Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924
Multi-degree of freedom, active vibration control method, and system
[NASA-CASE-LAR-14508-1-CU] c 39 N92-10202
High temperature, flexible pressure-actuated, brush seal
[NASA-CASE-LEW-15086-1] c 37 N92-18318
Electrorepulsive actuator
[NASA-CASE-NPO-17684-1-CU] c 33 N92-22042

ADAPTATION

Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

ADAPTERS

Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N91-25415
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N92-21727

ADAPTIVE CONTROL

Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941
Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371

ADAPTIVE FILTERS

Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493

ADAPTIVE OPTICS

Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900

ADDING CIRCUITS

Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843

ADDITION RESINS

Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13586

ADDITIVES

Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
Process for lowering the dielectric constant of polyimides using diamine acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546

ADDRESSING

Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

ADENOSINE TRIPHOSPHATE

Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

ADHESION

Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Method of insulating predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197

ADHESION TESTS

Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132

ADHESIVE BONDING

Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340

Thermal barrier coating system having improved adhesion
 [NASA-CASE-LEW-1335901] c 27 N83-31855
 Impacting device for testing insulation
 [NASA-CASE-MFS-25862-2] c 37 N84-33807
 Hot melt adhesive attachment pad
 [NASA-CASE-LAR-12894-1] c 27 N85-20125
 High temperature polyimide film laminates and process for preparation thereof
 [NASA-CASE-LAR-13384-1] c 27 N86-20561
 Method of attaching strain gauges to various materials
 [NASA-CASE-LAR-13797-1] c 35 N88-30108
 Novel polyimide molding powder, coating, adhesive, and matrix resin
 [NASA-CASE-LAR-14163-1] c 27 N91-13559
 Flush mounting of thin film sensors
 [NASA-CASE-LAR-14446-1] c 31 N91-28454
 Conductive gage for crack length measurement
 [NASA-CASE-LAR-14480-1-CU] c 39 N92-11374

ADHESIVES

Polyimide adhesives
 [NASA-CASE-LAR-11397-1] c 27 N75-29263
 Polyimide adhesives
 [NASA-CASE-LAR-12181-1] c 27 N78-17205
 Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
 [NASA-CASE-LAR-12099-1] c 27 N80-16158
 Aluminum ion-containing polyimide adhesives
 [NASA-CASE-LAR-12640-1] c 27 N82-11206
 Elastomer toughened polyimide adhesives
 [NASA-CASE-LAR-12775-1] c 27 N83-28240
 Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
 [NASA-CASE-LAR-12881-1] c 27 N84-14323
 Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
 [NASA-CASE-LAR-12775-2] c 27 N85-21349
 Thermal compensating mount
 [NASA-CASE-LAR-14207-1] c 35 N91-14590
 Processable polyimide adhesive and matrix composite resin
 [NASA-CASE-LAR-14101-1] c 27 N91-15403
 Process for bonding elastomers to metal
 [NASA-CASE-LAR-13645-1] c 27 N91-28424
 Permanent wire splicing by an explosive joining process
 [NASA-CASE-LAR-13825-1] c 31 N92-16162
 Method for non-destructive estimation of waveguide directional coupler dimensions
 [NASA-CASE-NPO-18454-1-CU] c 33 N92-17865

ADIABATIC CONDITIONS

Volumetric measurement of tank volume
 [NASA-CASE-MSC-21500-1] c 35 N91-21493

ADJUSTING

Instrument support with precise lateral adjustment
 Patent
 [NASA-CASE-XMF-00480] c 14 N70-39898
 Fine adjustment mount
 [NASA-CASE-MFS-20249] c 15 N72-11386
 Adjustable support
 [NASA-CASE-NPO-10721] c 15 N72-27484
 Clock setter
 [NASA-CASE-LAR-11458-1] c 35 N76-16392
 Adjustable mount for electro-optic transducers in an evacuated cryogenic system
 [NASA-CASE-LAR-13100-1] c 37 N87-23982
 Adjustable choke for fluids nozzle
 [NASA-CASE-NPO-17625-1-CU] c 34 N90-27070
 Apparatus for precision focussing and positioning of a beam waist on a target
 [NASA-CASE-ARC-11916-1-SB] c 74 N92-16811
 Adjustable steam producing flexible orifice independent of fluid pressure
 [NASA-CASE-NPO-17625-1-CU] c 34 N92-21724

ADSORPTION

Purification system
 [NASA-CASE-MSC-21584-1] c 25 N91-24362

AERIAL RUDDERS

Thrust augmented spin recovery device
 [NASA-CASE-LAR-11970-2] c 08 N81-19130

AEROACOUSTICS

Acoustically swept rotor --- helicopter noise reduction
 [NASA-CASE-ARC-11106-1] c 05 N80-14107

AERODYNAMIC BALANCE

Airplane automatic control force trimming device for asymmetric engine failures
 [NASA-CASE-LAR-13280-1] c 08 N87-20999
 Dual strain gage balance system for measuring light loads
 [NASA-CASE-LAR-14419-1] c 35 N92-10185

AERODYNAMIC BRAKES

Annular supersonic decelerator or drogue Patent
 [NASA-CASE-XLE-00222] c 02 N70-37939

Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
 [NASA-CASE-LAR-10776-1] c 02 N74-10034

AERODYNAMIC CHARACTERISTICS

Variable sweep wing aircraft Patent
 [NASA-CASE-XLA-00221] c 02 N70-33266
 Flight craft Patent
 [NASA-CASE-XAC-02058] c 02 N71-16087
 Space shuttle vehicle and system
 [NASA-CASE-MSC-12433] c 31 N73-14854
 Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
 [NASA-CASE-LAR-10585-1] c 02 N76-22154
 Curved centerline air intake for a gas turbine engine
 [NASA-CASE-LEW-13201-1] c 07 N81-14999
 Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
 [NASA-CASE-LAR-13870-1] c 05 N90-15094
 Multi-colored layers for visualizing aerodynamic flow effects
 [NASA-CASE-LAR-13742-1] c 02 N91-16999
 Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
 [NASA-CASE-LAR-13870-1-CU] c 05 N92-21587
 Multi-colored layers for visualizing aerodynamic flow effects
 [NASA-CASE-LAR-13742-1] c 02 N92-21588

AERODYNAMIC CONFIGURATIONS

Variable-span aircraft Patent
 [NASA-CASE-XLA-00166] c 02 N70-34178
 Landing arrangement for aerial vehicle Patent
 [NASA-CASE-XLA-00806] c 02 N70-34858
 Space capsule Patent
 [NASA-CASE-XLA-00149] c 31 N70-37938
 Hypersonic reentry vehicle Patent
 [NASA-CASE-XMS-04142] c 31 N70-41631
 Translating horizontal tail Patent
 [NASA-CASE-XLA-08801-1] c 02 N71-11043
 Variable geometry manned orbital vehicle Patent
 [NASA-CASE-XLA-03691] c 31 N71-15674
 Nacelle afterbody for jet engines Patent
 [NASA-CASE-XLA-10450] c 28 N71-21493
 Variable geometry rotor system
 [NASA-CASE-LAR-10557] c 02 N72-11018
 Ferry system
 [NASA-CASE-LAR-10574-1] c 11 N73-13257
 Multistage aerospace craft --- perspective drawings of conceptual design
 [NASA-CASE-XMF-02263] c 05 N74-10907
 Supersonic fan blading --- noise reduction in turbofan engines
 [NASA-CASE-LEW-11402-1] c 07 N74-28226
 Free wing assembly for an aircraft
 [NASA-CASE-FRC-10092-1] c 05 N79-12061
 Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
 [NASA-CASE-LAR-13511-1] c 05 N88-23765
 Actuated forebody strakes
 [NASA-CASE-LAR-13983-1] c 05 N90-23390

AERODYNAMIC DRAG

Skin friction measuring device for aircraft
 [NASA-CASE-FRC-11029-1] c 06 N81-17057
 Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
 [NASA-CASE-LAR-13870-1] c 05 N90-15094
 Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
 [NASA-CASE-LAR-13870-1-CU] c 05 N92-21587

AERODYNAMIC HEATING

Heat protection apparatus Patent
 [NASA-CASE-XLA-00892] c 33 N71-17897
 Heat flux measuring system Patent
 [NASA-CASE-XFR-03802] c 33 N71-23085
 Stand-off type ablative heat shield
 [NASA-CASE-MSC-12143-1] c 33 N72-17947

AERODYNAMIC INTERFERENCE

Over-the-wing propeller
 [NASA-CASE-LAR-13134-2] c 07 N87-16828
 Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
 [NASA-CASE-LAR-13511-1] c 05 N88-23765
 Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
 [NASA-CASE-MSC-21384-1] c 34 N92-16243
AERODYNAMIC LOADS
 Propeller blade loading control Patent
 [NASA-CASE-XAC-00139] c 02 N70-34856
 Means for controlling aerodynamically induced twist
 [NASA-CASE-LAR-12175-1] c 05 N82-28279
 Over-the-wing propeller
 [NASA-CASE-LAR-13134-2] c 07 N87-16828

AERODYNAMIC NOISE

Apparatus for reducing aerodynamic noise in a wind tunnel
 [NASA-CASE-MFS-23099-1] c 09 N76-23273
 Acoustically swept rotor --- helicopter noise reduction
 [NASA-CASE-ARC-11106-1] c 05 N80-14107
 Curved centerline air intake for a gas turbine engine
 [NASA-CASE-LEW-13201-1] c 07 N81-14999

AERODYNAMIC STABILITY

Meteorological balloon Patent
 [NASA-CASE-XMF-04163] c 02 N71-23007
 Instrument for measuring the dynamic behavior of liquids Patent
 [NASA-CASE-XLA-05541] c 12 N71-26387
 Emergency earth orbital escape device
 [NASA-CASE-MSC-13281] c 31 N72-18859
 High lift aircraft --- with improved stability, control, performance, and noise characteristics
 [NASA-CASE-LAR-11252-1] c 05 N75-25914
 Hingeless helicopter rotor with improved stability
 [NASA-CASE-ARC-10807-1] c 05 N77-17029
 Annular wing
 [NASA-CASE-FRC-11007-2] c 05 N82-26277
 Aeroelastic instability stoppers for wind tunnel models
 [NASA-CASE-LAR-12720-1] c 44 N83-21504
 Over-the-wing propeller
 [NASA-CASE-LAR-13134-2] c 07 N87-16828
 Actuated forebody strakes
 [NASA-CASE-LAR-13983-1] c 05 N90-23390

AERODYNAMIC STALLING

Aerodynamic side-force alleviator means
 [NASA-CASE-LAR-12326-1] c 02 N81-14968

AERODYNAMICS

Passive laminar flow control of crossflow vorticity
 [NASA-CASE-LAR-13563-1] c 34 N91-23410

AEROELASTICITY

Aeroelastic instability stoppers for wind tunnel models
 [NASA-CASE-LAR-12458-1] c 44 N83-21503
 Aeroelastic instability stoppers for wind tunnel models
 [NASA-CASE-LAR-12720-1] c 44 N83-21504

AERONAUTICAL ENGINEERING

Differential pressure cell Patent
 [NASA-CASE-XAC-00042] c 14 N70-34816

AEROSOLS

Liquid aerosol dispenser
 [NASA-CASE-MFS-20829] c 12 N72-21310
 Particulate and aerosol detector
 [NASA-CASE-LAR-11434-1] c 35 N76-22509
 Thermoluminescent aerosol analysis
 [NASA-CASE-LAR-12046-1] c 25 N78-15210
 Particle analyzing method and apparatus
 [NASA-CASE-NPO-15292-1] c 35 N83-27184
 Liquid seeding atomizer
 [NASA-CASE-ARC-11631-1] c 34 N87-21255

AEROSPACE ENGINEERING

Solar cell including second surface mirrors Patent
 [NASA-CASE-NPO-10109] c 03 N71-11049
 Metallic film diffusion for boundary lubrication Patent
 [NASA-CASE-XLE-10337] c 15 N71-24046
 Soldering device Patent
 [NASA-CASE-XLA-08911] c 15 N71-27214
 Installing fiber insulation
 [NASA-CASE-MSC-16973-1] c 37 N81-14317

AEROSPACE ENVIRONMENTS

Electrostatic thruster with improved insulators Patent
 [NASA-CASE-XLE-01902] c 28 N71-10574
 Metallic film diffusion for boundary lubrication Patent
 [NASA-CASE-XLE-01765] c 18 N71-10772
 Inorganic solid film lubricants Patent
 [NASA-CASE-XMF-03988] c 15 N71-21403
 Particle detection apparatus including a ballistic pendulum Patent
 [NASA-CASE-XMS-04201] c 14 N71-22990
 Alloys for bearings Patent
 [NASA-CASE-XLE-05033] c 15 N71-23810
 Method and apparatus for varying thermal conductivity Patent
 [NASA-CASE-XNP-05524] c 33 N71-24876
 Space simulator Patent
 [NASA-CASE-NPO-10141] c 11 N71-24964
 Cyclic switch Patent
 [NASA-CASE-LEW-10155-1] c 09 N71-29035
 Automatic biowaste sampling
 [NASA-CASE-MSC-14640-1] c 54 N76-14804
 Wobble gear drive mechanism --- for aerospace environments
 [NASA-CASE-WOO-00625] c 37 N78-17385
 Plasma cleaning device --- designed for high vacuum environments
 [NASA-CASE-MFS-22906-1] c 75 N78-27913
 Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
 [NASA-CASE-MSC-14331-3] c 27 N78-32262
 General purpose rocket furnace
 [NASA-CASE-MFS-23460-1] c 12 N79-26075

SUBJECT INDEX

Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511

AEROSPACE MEDICINE
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721

AEROSPACE PLANES
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907

AEROSPACE SYSTEMS
Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514

AEROSPACE VEHICLES
Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236

AFTERBODIES
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

AFTERBURNING
Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374

AGGLOMERATION
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

AGING (MATERIALS)
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261

AGRICULTURE
Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701

AILERONS
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809

AIR
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595

AIR BREATHING ENGINES
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800

AIR CONDITIONING
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410

AIR CONDITIONING EQUIPMENT
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902
Heat tube device
[NASA-CASE-KSC-11395-1-CU] c 34 N91-21473

AIR COOLING
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215

AIR FILTERS
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457

AIR FLOW
Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144
Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Vapor fragrancier
[NASA-CASE-LAR-13680-1] c 35 N87-25561
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215

AIR INTAKES
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

AIR LOCKS
Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
An airlock
[NASA-CASE-MFS-20922] c 31 N72-20840
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900

AIR NAVIGATION
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

AIR POLLUTION
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497

AIRCRAFT CONSTRUCTION MATERIALS

Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662

AIR PURIFICATION
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280

AIR QUALITY
Vapor fragrancier
[NASA-CASE-LAR-13680-1] c 35 N87-25561

AIR SAMPLING
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

AIR START
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

AIR TRAFFIC CONTROL
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

AIR TRANSPORTATION
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

AIRBORNE EQUIPMENT
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113

AIRBORNE/SPACEBORNE COMPUTERS
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914

AIRCRAFT
System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

AIRCRAFT ACCIDENTS
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948

AIRCRAFT ANTENNAS
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

AIRCRAFT COMPARTMENTS
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184

AIRCRAFT CONFIGURATIONS
Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390

AIRCRAFT CONSTRUCTION MATERIALS
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

AIRCRAFT CONTROL

Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038
Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139
Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140

AIRCRAFT DESIGN
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217
Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078

AIRCRAFT DETECTION
Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296

AIRCRAFT ENGINES
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650

AIRCRAFT EQUIPMENT
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
Lighting discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345

AIRCRAFT FUEL SYSTEMS
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467

AIRCRAFT GUIDANCE
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231

AIRCRAFT HAZARDS
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788

AIRCRAFT HYDRAULIC SYSTEMS
Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738

AIRCRAFT INSTRUMENTS
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N91-23662

AIRCRAFT LANDING
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

AIRCRAFT LAUNCHING DEVICES

Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

AIRCRAFT MANEUVERS

G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381

AIRCRAFT MODELS

Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014

AIRCRAFT NOISE

Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232
Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652

AIRCRAFT PERFORMANCE

Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120

AIRCRAFT PILOTS

Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597

AIRCRAFT POWER SUPPLIES

Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345

AIRCRAFT SAFETY

Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Display research collision warning system
[NASA-CASE-HON-10703] c 21 N73-13643
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982

AIRCRAFT SPIN

Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139

AIRCRAFT STABILITY

Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914

AIRCRAFT STRUCTURES

Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568

The 1-((diorganoxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605

Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650

Some 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475

AIRCRAFT TIRES
Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443

AIRCRAFT WAKES
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

AIRFOIL PROFILES
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136

AIRFOILS
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410

Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411

Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083

Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077

Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947

Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841

High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N92-10185

AIRFRAMES
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005

Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114

Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

AIRSPEED
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858

Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296

Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036

Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

ALBUMINS
Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

ALCOHOLS
Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

ALDEHYDES
Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239

Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242

Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740

Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214

Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

ALGEBRA
High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N92-17895

ALGORITHMS
Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713

Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016

Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691

Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N91-23783

ALIGNMENT
Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898

Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371

Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955

Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688

Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798

Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125

Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379

Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893

Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397

Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186

Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276

Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993

Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478

Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523

Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650

X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126

Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447

Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982

Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360

Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842

Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553

Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409

Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023

Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590

Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591

Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541

Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543

Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-32922

ALKALI HALIDES
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALKALI METALS
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979

Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527

Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183

Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084

Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573

Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229

Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347

Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596

Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALKALINE BATTERIES
Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728

Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491

Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138

Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530

Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615

Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641

Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642

Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643

Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644

Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176

Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

ALKALINE EARTH OXIDES
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229

ALKYL COMPOUNDS
Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101

Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744

Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

Some 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475

Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185

ALKYNES
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

ALLOYS
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365

Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810

Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875

Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123

Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358

Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125

Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303

Solidification processing of alloys using an applied electric field

[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940

ALPHA PARTICLES

Method and means for helium/hydrogen ratio measurement by alpha scattering

[NASA-CASE-NPO-14079-1] c 25 N80-20334

ALPHANUMERIC CHARACTERS

X-Y alphanumeric character generator for oscilloscopes

[NASA-CASE-GSC-11582-1] c 33 N75-19517

ALTERNATING CURRENT

Ac power amplifier Patent Application

[NASA-CASE-LAR-10218-1] c 09 N70-34559

Frequency control network for a current feedback oscillator Patent

[NASA-CASE-GSC-10041-1] c 10 N71-19418

Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent

[NASA-CASE-XMS-06061] c 05 N71-23317

Switching circuit Patent

[NASA-CASE-XNP-06505] c 10 N71-24799

Pulse width inverter Patent

[NASA-CASE-MFS-10068] c 10 N71-25139

Inverter with means for base current shaping for sweeping charge carriers from base region Patent

[NASA-CASE-XGS-06226] c 10 N71-25950

A dc to ac to dc converter having transistor synchronous rectifiers

[NASA-CASE-GSC-11126-1] c 09 N72-25253

Phase protection system for ac power lines

[NASA-CASE-MSC-17832-1] c 33 N74-14956

Solar cell system having alternating current output

[NASA-CASE-LEW-12806-2] c 44 N81-12542

Power factor control system for ac induction motors

[NASA-CASE-MFS-23988-1] c 33 N81-27395

Non-contacting power transfer device

[NASA-CASE-GSC-12595-1] c 33 N82-24422

Motor power control circuit for ac induction motors

[NASA-CASE-MFS-25323-1] c 33 N84-22886

Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines

[NASA-CASE-MFS-25302-2] c 33 N84-33660

Three-phase power factor controller with induced EMF sensing

[NASA-CASE-MFS-25852-1] c 33 N84-33661

Power control for ac motor

[NASA-CASE-MFS-25861-1] c 33 N85-22877

Induction heating gun

[NASA-CASE-LAR-13181-1] c 31 N85-29083

ALTIMETERS

Echo tracker/range finder for radars and sonars

[NASA-CASE-NPO-14361-1] c 32 N82-23376

ALTITUDE

Combined optical attitude and altitude indicating instrument Patent

[NASA-CASE-XLA-01907] c 14 N71-23268

ALTITUDE CONTROL

Check valve assembly for a probe Patent

[NASA-CASE-XLA-00128] c 15 N70-37925

ALUMINUM

Method of joining aluminum to stainless steel Patent

[NASA-CASE-MFS-07369] c 15 N71-20443

Thermal control coating Patent

[NASA-CASE-XLA-01995] c 18 N71-23047

Etching of aluminum for bonding Patent

[NASA-CASE-XMF-02303] c 17 N71-23828

Process for producing dispersion strengthened nickel with aluminum Patent

[NASA-CASE-XLE-06969] c 17 N71-24142

Plating nickel on aluminum castings Patent

[NASA-CASE-XNP-04148] c 17 N71-24830

Method of plating copper on aluminum Patent

[NASA-CASE-XLA-08966-1] c 17 N71-25903

Heat activated cell Patent

[NASA-CASE-LEW-11359] c 03 N71-28579

Method of making emf cell

[NASA-CASE-LEW-11359-2] c 03 N72-20034

Method of preparing graphite reinforced aluminum composite

[NASA-CASE-MFS-21077-1] c 24 N75-28135

Method of fluxless brazing and diffusion bonding of aluminum containing components

[NASA-CASE-MSC-14435-1] c 37 N76-18455

Method for making an aluminum or copper substrate panel for selective absorption of solar energy

[NASA-CASE-MFS-23518-1] c 44 N79-11469

Recovery of aluminum from composite propellants

[NASA-CASE-NPO-14110-1] c 28 N81-15119

Variable anodic thermal control coating

[NASA-CASE-LAR-12719-1] c 44 N83-34449

Oxygen diffusion barrier coating

[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

Composite passive damping struts for large precision structures

[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767

Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization

[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014

Production of mullite fibers

[NASA-CASE-MFS-28431-1] c 24 N92-17870

ALUMINUM ALLOYS

Low temperature aluminum alloy Patent

[NASA-CASE-XMF-02786] c 17 N71-20743

Etching of aluminum for bonding Patent

[NASA-CASE-XMF-02303] c 17 N71-23828

Method of producing complex aluminum alloy parts of high temper, and products thereof

[NASA-CASE-MSC-19693-1] c 26 N78-24333

Nickel ternary alloy having improved cyclic oxidation resistance

[NASA-CASE-LEW-13339-1] c 26 N82-31505

Metal matrix composite structural panel construction

[NASA-CASE-LAR-12807-1] c 24 N84-11214

Elevated temperature aluminum alloys

[NASA-CASE-LAR-13632-1] c 26 N87-29650

Aluminum alloy

[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

ALUMINUM COATINGS

Nickel aluminide coated low alloy stainless steel

[NASA-CASE-LEW-11267-1] c 17 N73-32414

Preparing oxidizer coated metal fuel particles

[NASA-CASE-NPO-11975-1] c 28 N74-33209

Method of protecting the surface of a substrate --- by applying aluminide coating

[NASA-CASE-LEW-11696-1] c 37 N75-13261

Duplex aluminized coatings

[NASA-CASE-LEW-11696-2] c 26 N75-19408

Meteoroid impact position locator aid for manned space station

[NASA-CASE-LAR-10629-1] c 35 N75-33367

Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes

[NASA-CASE-LEW-13343-1] c 27 N82-28441

Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades

[NASA-CASE-LEW-13343] c 26 N83-31795

ALUMINUM COMPOUNDS

Synthesis of dawsonites --- for use in fire extinguishing operations

[NASA-CASE-ARC-11326-1] c 25 N83-33977

Fire extinguishant materials

[NASA-CASE-ARC-11252-1] c 25 N83-36118

Production of mullite fibers

[NASA-CASE-MFS-28431-1] c 24 N92-17870

ALUMINUM OXIDES

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide

[NASA-CASE-GSC-11577-1] c 37 N75-15992

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide

[NASA-CASE-GSC-11577-3] c 24 N79-25143

Method and technique for installing light-weight, fragile, high-temperature fiber insulation

[NASA-CASE-MSC-16934-3] c 24 N84-16262

ALUMINUM SILICATES

Inorganic thermal control pigment Patent

[NASA-CASE-XNP-02139] c 18 N71-24184

AMBIENT TEMPERATURE

High stability amplifier

[NASA-CASE-GSC-12646-1] c 33 N83-34191

AMBIGUITY

Phase ambiguity resolution for offset QPSK modulation systems

[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318

AMIDES

Preparation of heterocyclic block copolymer omega-diamidoximes

[NASA-CASE-ARC-11060-1] c 27 N79-22300

Method for preparing addition type polyimide prepreps

[NASA-CASE-LAR-12054-2] c 27 N81-14078

Polyimides prepared from 3,5-diamino benzo trifluoride

[NASA-CASE-LAR-14206-1] c 27 N91-28425

Diphenylmethane-containing dianhydride and polyimides prepared therefrom

[NASA-CASE-LAR-14487-1] c 27 N92-11200

AMINES

Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent

[NASA-CASE-XMF-08655] c 06 N71-11239

Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent

[NASA-CASE-XMF-08652] c 06 N71-11243

Polyimide foam for the thermal insulation and fire protection

[NASA-CASE-ARC-10464-1] c 27 N74-12812

Automated analysis of oxidative metabolites

[NASA-CASE-ARC-10469-1] c 25 N75-12086

Preparation of perfluorinated 1,2,4-oxadiazoles

[NASA-CASE-ARC-11267-2] c 23 N82-28353

Method of neutralizing the corrosive surface of amine-cured epoxy resins

[NASA-CASE-GSC-12686-1] c 27 N83-34039

Metal (2,4,4',4'') phthalocyanine tetraamines as curing agents for epoxy resins

[NASA-CASE-ARC-11424-1] c 27 N85-34281

Laminate comprising fibers embedded in cured amine terminated bis-imide

[NASA-CASE-ARC-11421-3] c 24 N86-25416

Amine terminated bispartimide polymer

[NASA-CASE-ARC-11421-2] c 27 N86-31726

Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof

[NASA-CASE-ARC-11548-1] c 27 N87-25469

Aromatic cyclotriphosphazenes

[NASA-CASE-ARC-11428-3] c 23 N88-24692

Polyimides with improved compression moldability

[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198

AMINO ACIDS

Amino acid analysis

[NASA-CASE-NPO-12130-1] c 25 N75-14844

AMMONIA

Solid state chemical source for ammonia beam maser

Patent

[NASA-CASE-XGS-01504] c 16 N70-41578

AMMONIUM NITRATES

High performance ammonium nitrate propellant

[NASA-CASE-NPO-14260-1] c 28 N79-28342

AMMONIUM PERCHLORATES

Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive

Patent

[NASA-CASE-LAR-10173-1] c 27 N71-14090

Process for the leaching of AP from propellant

[NASA-CASE-NPO-14109-1] c 28 N80-23471

AMORPHOUS MATERIALS

Corrosion resistant coating

[NASA-CASE-NPO-15928-1] c 26 N85-29005

Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling

[NASA-CASE-NPO-15658-1] c 26 N86-32551

Oxygen diffusion barrier coating

[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

Method of intercalating large quantities of fibrous structures

[NASA-CASE-LEW-15077-1] c 24 N92-16025

AMPLIFICATION

Amplifier drift tester

[NASA-CASE-XMS-05562-1] c 09 N69-39986

Amplifier clamping circuit for horizon scanner Patent

[NASA-CASE-XGS-01784] c 10 N71-20782

Diversity receiving system with diversity phase lock

Patent

[NASA-CASE-XGS-01222] c 10 N71-20841

Active RC networks

[NASA-CASE-ARC-10042-2] c 10 N72-11256

High voltage transistor amplifier with constant current load

[NASA-CASE-NPO-11023] c 09 N72-17155

Independent gain and bandwidth control of a traveling wave maser

[NASA-CASE-NPO-13801-1] c 36 N78-18410

Pseudonoise code tracking loop

[NASA-CASE-MSC-18035-1] c 32 N81-15179

Automatic level control circuit

[NASA-CASE-KSC-11170-1] c 33 N83-36356

AMPLIFIER DESIGN

Automatic gain control system

[NASA-CASE-XMS-05307] c 09 N69-24330

Bio-isolated dc operational amplifier --- for bioelectric measurements

[NASA-CASE-ARC-10596-1] c 33 N74-21851

High power metallic halide laser --- amplifying a copper chloride laser

[NASA-CASE-NPO-14782-1] c 36 N82-28616

Reactanceless synthesized impedance bandpass amplifier

[NASA-CASE-GSC-12788-1] c 33 N85-29145

Amplifier for measuring low-level signals in the presence of high common mode voltage

[NASA-CASE-MFS-25868-1] c 33 N86-20670

Low phase noise oscillator using two parallel connected amplifiers

[NASA-CASE-GSC-13018-1] c 33 N87-21232

AMPLIFIERS

Stable amplifier having a stable quiescent point

Patent

- High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
- RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
- Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
- Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
- High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
- Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
- Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
- Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271
- AMPLITUDE DISTRIBUTION ANALYSIS**
- System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
- Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
- Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045
- AMPLITUDE MODULATION**
- Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
- Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
- Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
- Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
- Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
- Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
- Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
- Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
- Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11945-1] c 36 N76-18427
- Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
- Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
- Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918
- AMPLITUDES**
- Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
- Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
- High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
- AMPOULES**
- Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
- Reusable thermal cycling clamp
[NASA-CASE-LAR-12868-1] c 37 N85-21651
- Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896
- ANALGESIA**
- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764
- ANALOG CIRCUITS**
- Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058
- Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
- Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
- Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
- Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
- Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
- Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
- Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852
- Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438
- ANALOG COMPUTERS**
- Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172
- ANALOG DATA**
- Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
- Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
- Analog Signal to Discrete Time Interval Converter (ASDTIC)
[NASA-CASE-ERC-10048] c 09 N72-25251
- Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
- Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
- ANALOG SIMULATION**
- Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913
- ANALOG TO DIGITAL CONVERTERS**
- Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
- Analog to digital converter Patent
[NASA-CASE-XLA-00670] c 08 N71-12501
- Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
- Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
- Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
- Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
- Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
- Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 08 N72-21200
- Analog-to-digital converter
[NASA-CASE-MSC-13110-1] c 08 N72-22163
- Analog-to-digital converter analyzing system
[NASA-CASE-NPO-10560] c 08 N72-22166
- Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
- Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
- Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045
- Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-18345
- Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
- Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
- Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701
- Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
- A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492
- X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835
- ANALOGIES**
- Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N91-13888
- ANALYZERS**
- Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
- Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
- NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
- Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
- Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
- ANCHORS (FASTENERS)**
- Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976
- Blind fastening apparatus
[NASA-CASE-LAR-14542-1] c 37 N92-11354
- ANECHOIC CHAMBERS**
- Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
- ANEMOMETERS**
- Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
- Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460
- Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
- Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962
- Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N92-21710
- ANGIOGRAPHY**
- Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
- ANGLE OF ATTACK**
- Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395
- Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
- ANGLES (GEOMETRY)**
- Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
- Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
- Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
- Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
- Universal precision sine bar attachment
[NASA-CASE-MFS-28253-1] c 37 N89-28831
- ANGULAR ACCELERATION**
- Angular accelerometer Patent
[NASA-CASE-XMS-05936] c 14 N70-41682
- ANGULAR CORRELATION**
- Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
- ANGULAR DISTRIBUTION**
- Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
- ANGULAR MOMENTUM**
- Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
- Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
- Fluidic momentum controller
[NASA-CASE-MSC-20906-2] c 35 N89-15379
- ANGULAR RESOLUTION**
- Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179
- Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387
- ANGULAR VELOCITY**
- Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
- Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
- Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
- Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-1CU] c 35 N86-32695
- ANHYDRIDES**
- Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphthalic anhydrides
[NASA-CASE-MFS-22356-1] c 23 N75-30256

Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116

Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515

Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376

Novel polyimide compositions based on 4,4': isophthaloyldiphthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148

Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259

Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950

Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497

Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956

Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141

Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185

Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230

A process for preparing an assembly of an article and a polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14538-1] c 27 N92-11201

Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-6] c 23 N92-17882

ANILINE
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230

Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185

ANIMALS
Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778

Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733

ANIONS
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570

ANISOTROPIC MEDIA
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188

ANISOTROPY
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

Method for anisotropic etching in the manufacture of semiconductor devices
[NASA-CASE-MSC-21631-1] c 75 N91-32947

ANNEALING
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062

CDS solid state phase insensitive ultrasonic transducer --- annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559

ANNULAR NOZZLES
Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806

Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

ANNULAR PLATES
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939

Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

ANNULI
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

ANODES
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084

Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693

Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473

Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699

Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386

Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330

Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117

Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536

Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
[NASA-CASE-LEW-14973-1] c 44 N92-10222

ANODIC COATINGS
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151

Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162

Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449

ANOMALIES
Aircraft lifter
[NASA-CASE-LAR-12518-1] c 06 N86-27280

ANTENNA ARRAYS
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200

Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775

Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396

Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854

Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625

Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056

Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233

Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809

Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148

Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244

Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235

Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206

Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234

Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860

Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250

Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391

RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594

Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264

Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210

Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578

Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185

Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187

Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308

Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336

Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493

Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

ANTENNA COMPONENTS
Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556

Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381

Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

ANTENNA COUPLERS
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

ANTENNA DESIGN
Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-NXP-01735] c 07 N71-22750

Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984

Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056

Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979

Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980

Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235

Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117

Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516

Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330

Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365

Furlable antenna --- antenna design
[NASA-CASE-NPO-13553-1] c 33 N76-32457

Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539

Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604

Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961

System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621

ANTENNA FEEDS
Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285

Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396

Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235

Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013

Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000

High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863

Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329

Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321

Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261

Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278

Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340

- Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
- Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
- Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104
- ANTENNA RADIATION PATTERNS**
- Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
- Dual mode horn antenna Patent
[NASA-CASE-NXP-01057] c 07 N71-15907
- Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
- High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
- Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
- Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
- Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
- Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- ANTENNAS**
- Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
- High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
- Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
- Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
- Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
- Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
- Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206
- ANTIBIOTICS**
- Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
- ANTIBODIES**
- Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239
- ANTICHOLINERGICS**
- Intranasal scopolamine preparation and method
[NASA-CASE-MSC-21858-1] c 52 N92-11628
- ANTIFRICTION BEARINGS**
- Hybrid lubrication system and bearing Patent
[NASA-CASE-NXP-01641] c 15 N71-22997
- Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
- High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
- Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
- Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
- Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
- Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112
- ANTIGRAVITY**
- Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789
- ANTIHISTAMINICS**
- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764
- ANTIREFLECTION COATINGS**
- Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
- Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
- ANVILS**
- Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
- High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N91-28363
- APERTURES**
- Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-NXP-03332] c 09 N71-10618
- Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
- On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
- Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
- Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
- Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
- APOLLO PROJECT**
- Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
- APOLLO SPACECRAFT**
- Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
- Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450
- APPLICATIONS OF MATHEMATICS**
- Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
- APPLICATIONS PROGRAMS (COMPUTERS)**
- High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N92-17895
- APPROACH**
- Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
- AQUATIC PLANTS**
- Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
- AQUEOUS SOLUTIONS**
- Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
- Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
- Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
- Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
- Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
- Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N92-10681
- ARC DISCHARGES**
- Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
- Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
- Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
- Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385
- ARC HEATING**
- Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
- Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
- Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071
- ARC JET ENGINES**
- Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
- Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939
- ARC LAMPS**
- Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
- Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
- Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
- Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
- Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238
- Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330
- Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
- Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942
- ARC SPRAYING**
- Arc spray fabrication of metal matrix composite monotape
[NASA-CASE-LEW-13828-1] c 24 N85-30027
- Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145
- ARC WELDING**
- Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
- Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
- Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
- Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
- Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
- Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
- Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980
- ARC length control for plasma welding
[NASA-CASE-MSC-20900-1] c 37 N88-30131
- Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602
- Substantially oxygen-free contact tube
[NASA-CASE-LAR-14169-1] c 37 N92-17677
- ARCHITECTURE**
- Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
- ARCHITECTURE (COMPUTERS)**
- Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
- Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
- High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N86-27270
- Method for Veterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
- Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310
- Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
- Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
- Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
- System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944
- Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371
- Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
- Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
- Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805
- Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852
- ARGON**
- Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
- ARITHMETIC**
- VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
- ARM (ANATOMY)**
- Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
- Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
- Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551

Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795

ARMATURES

Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

AROMATIC COMPOUNDS

Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
Bis (4-(3,4-dimethylene-pyrrolyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418

ARRAYS

Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528
Formation of self-aligned guard rings for monolithic Schottky-barrier diode arrays
[NASA-CASE-NPO-17734-1-CU] c 33 N92-10146

ARTERIES

Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566

ARTIFICIAL CLOUDS

Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097

ARTIFICIAL GRAVITY

Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

ARTIFICIAL INTELLIGENCE

Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N92-22033
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

ASBESTOS

Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204

ASHES

Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423

ASPECT RATIO

Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011

ASPHALT

Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228

ASSAYING

Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239

ASSEMBLIES

Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
Emitting vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983

ASSEMBLING

Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866
Method of preforming and assembling superconducting circuit elements
[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490

ASSEMBLY

Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
Blind fastening apparatus
[NASA-CASE-LAR-14542-1] c 37 N92-11354

ASSOCIATIVE PROCESSING (COMPUTERS)

Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803

ASTRONAUT LOCOMOTION

Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651

ASTRONAUT MANEUVERING EQUIPMENT

Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

ASTRONAUT PERFORMANCE

Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735

ASTRONAUT TRAINING

Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474

ASTRONAUTS

Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979
End effector with astronaut foot restraint
[NASA-CASE-MSC-21721-1] c 54 N92-16559

ASTRONAVIGATION

Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621

ASTRONOMICAL PHOTOGRAPHY

Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419

ASYMMETRY

Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523
Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810

ATMOSPHERIC CHEMISTRY

All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808

ATMOSPHERIC COMPOSITION

Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

ATMOSPHERIC DENSITY

System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

ATMOSPHERIC ENTRY

Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

ATMOSPHERIC ENTRY SIMULATION

Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436

ATMOSPHERIC MOISTURE

Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496

ATMOSPHERIC PHYSICS

Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318

ATMOSPHERIC PRESSURE

Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243

ATMOSPHERIC RADIATION

Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432

ATMOSPHERIC REFRACTION

Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344

ATMOSPHERIC SCATTERING

Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028

ATMOSPHERIC SOUNDING

Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685

ATMOSPHERIC TEMPERATURE

System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639

ATMOSPHERIC TURBULENCE

Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493

ATOMIC BEAMS

Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661

ATOMIC EXCITATIONS

Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127

ATOMIC STRUCTURE

Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118

SUBJECT INDEX

ATOMIZERS

- Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255

ATS

- Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978

ATTACHMENT

- Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150

ATTENUATORS

- Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969

ATTITUDE (INCLINATION)

- Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172
Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391

ATTITUDE CONTROL

- Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Ejection unit Patent
[NASA-CASE-XNP-00876] c 15 N70-38996
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247

- Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380
- ATTITUDE GYROS**
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
- ATTITUDE INDICATORS**
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
- ATTITUDE STABILITY**
Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
Apparatus for automatically stabilizing the attitude of a nonrigid vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064
- AUDIO EQUIPMENT**
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N92-10609
- AUDIO FREQUENCIES**
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530
- AUDIO SIGNALS**
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513
- AUDITORY DEFECTS**
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522
- AUDITORY PERCEPTION**
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
- AUDITORY SIGNALS**
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
- AUDITORY STIMULI**
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
- AUGER EFFECT**
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
- AUSTENITIC STAINLESS STEELS**
Nickel aluminum coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257
- AUTOCALVES**
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
- AUTOCORRELATION**
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503

AUTOMATIC CONTROL

- Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
- AUTOMATIC CONTROL**
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
Automatic welding speed controller Patent
[NASA-CASE-XMF-01730] c 15 N71-23050
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729
Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200

AUTOMATIC CONTROL VALVES

Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

AUTOMATIC FREQUENCY CONTROL

Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385

AUTOMATIC GAIN CONTROL

Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385

AUTOMATIC TEST EQUIPMENT

Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
Visual examination apparatus
[3-PATENT-RE-28,921] c 52 N76-30793
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987

AUTOMATION

Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

AUTOMOBILE ENGINES

Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352

AUTOMOBILE FUELS

Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700

AUTONOMOUS NAVIGATION

Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036

AUTONOMY

Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724

AUXILIARY POWER SOURCES

Independent power generator
[NASA-CASE-LAR-11208-1] c 44 N78-32539
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319

AVERAGE

Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

AVIONICS

Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678

AXES (REFERENCE LINES)

Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992
Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

AXES OF ROTATION

Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620

AXIAL COMPRESSION LOADS

Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312

AXIAL FLOW

Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194

AXIAL FLOW PUMPS

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974

AXIAL FLOW TURBINES

Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335

AXIAL LOADS

Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N91-23491
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N91-25415
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N92-21727

AXIAL STRESS

Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511

AZIMUTH

Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

AZINES

Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156

Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Perfluoroalkyl polytriazines containing pendent iodo-difluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259

AZO COMPOUNDS

Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177

AZOLES

Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N91-23237

B**BACK INJURIES**

Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662

BACKGROUND NOISE

Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980

BACKGROUND RADIATION

Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411

BACKSCATTERING

Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091

BACKUPS

Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N91-23490

BACKWARD WAVES

Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974

BACTERIA

Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

BACTERIOLOGY

Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677

BAFFLES

Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331

- Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
- Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
- Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
- Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
- System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
- Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
- Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125
- BAGS**
- Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192
- Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
- BAKING**
- Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
- A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MS-C-18934-3] c 24 N82-26387
- BALANCE**
- Thermo-protective device for balances Patent
[NASA-CASE-XAC-00648] c 14 N70-40400
- Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
- Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
- Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
- BALANCING**
- Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
- Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
- Lift balancing device
[NASA-CASE-LAR-10348-1] c 11 N73-12264
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- BALL BEARINGS**
- Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
- High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
- Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c 15 N73-30458
- Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
- Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
- Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
- Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
- Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608
- Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540
- BALLAST**
- Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
- BALLAST (MASS)**
- Life raft stabilizer
[NASA-CASE-MS-C-12393-1] c 02 N73-26006
- BALLASTS (IMPEDANCES)**
- Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
- Direct current ballast circuit for metal halide lamp
[NASA-CASE-MS-C-18407-1] c 33 N82-24427
- BALLISTICS**
- Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
- BALLOON SOUNDING**
- Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039
- BALLOON-BORNE INSTRUMENTS**
- Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304
- BALLOONS**
- Hot air balloon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
- Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
- System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
- BALLS**
- Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
- Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
- BANDPASS FILTERS**
- Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
- Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
- Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241
- High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195
- Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
- Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
- Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
- Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
- Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
- Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
- Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
- Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650
- BANDWIDTH**
- Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
- Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
- Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
- Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
- Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
- Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MS-C-20821-1] c 17 N87-25348
- BARIUM**
- Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097
- BARIUM COMPOUNDS**
- Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
- BARIUM FLUORIDES**
- Method of making self lubricating fluoride-metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105
- BARIUM ION CLOUDS**
- Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360
- BARIUM TITANATES**
- Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198
- BARRIER LAYERS**
- Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
- Method of measuring field tunneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
- System for venting gas from a liquid storage tank
[NASA-CASE-MS-C-21253-1] c 31 N90-20254
- Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
- BARRIERS**
- Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
- High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560
- BARS**
- Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
- BASES (CHEMICAL)**
- Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
- BATHING**
- Whole body cleansing agent
[NASA-CASE-MS-C-21589-1] c 54 N91-16566
- BATHS**
- Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729
- BATTERY CHARGERS**
- Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
- Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
- Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
- Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531
- BAYARD-ALPERT IONIZATION GAGES**
- Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
- BAYS (STRUCTURAL UNITS)**
- Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492
- BEADS**
- Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
- Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
- BEAM LEADS**
- Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951
- BEAM SPLITTERS**
- Optical range finder having nonoverlapping complete images
[NASA-CASE-MS-C-12105-1] c 14 N72-21409
- Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
- Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
- Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
- Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
- Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
- Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
- High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
- Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
- Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918
- BEAM SWITCHING**
- Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
- Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
- Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516
- Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
- Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
- BEAM WAVEGUIDES**
- Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
- Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
- Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
- Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
- Prism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

BEAMS (RADIATION)

Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154

Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695

Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510

Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578

Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443

Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072

Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304

Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065

Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960

Schlieren system for visualizing the flow within a pipe of circular cross-section
[NASA-CASE-LAR-13944-1] c 35 N92-11336

BEAMS (SUPPORTS)

Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259

Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895

Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479

Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605

Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979

Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398

Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357

Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199

BEARING

Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670

BEARING (DIRECTION)

Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331

Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239

Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655

Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422

System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075

BEARINGS

Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810

Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537

Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288

Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574

Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464

Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486

Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500

Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501

Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482

Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043

Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323

Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492

Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581

Method of recertifying a loaded bearing member
[NASA-CASE-LAR-14168-1] c 39 N92-12302

System for testing bearings
[NASA-CASE-MFS-28589-1] c 37 N92-17584

BEDS (PROCESS ENGINEERING)

Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901

Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428

BEER LAW

A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090

BEES

Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499

BELLOWS

Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473

Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960

Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937

Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686

Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706

Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999

BELTS

Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917

BEND TESTS

Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430

Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540

BENDING

Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436

Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971

Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679

Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408

Automatic locking orthotic knee device
[NASA-CASE-MFS-28633-1] c 54 N92-17866

BENDING DIAGRAMS

Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095

BENDING FATIGUE

Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993

Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659

BENDING MOMENTS

Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353

Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

BENDING VIBRATION

Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626

BENZENE

Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572

Polymer of phosphorylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525

Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564

The 1-((diorganooxyphosphonyl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133

Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475

BERYLLIUM ALLOYS

Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408

Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

BERYLLIUM HYDRIDES

Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

BERYLLIUM OXIDES

High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373

High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452

High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

BIDIRECTIONAL REFLECTANCE

A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253

BIMETALS

Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313

Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409

Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260

Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496

Simetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126

Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

BINARY CODES

Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103

Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407

Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209

Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850

Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289

Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308

Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691

Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313

BINARY DATA

Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743

Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602

Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693

Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613

Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654

Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691

VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525

BINARY DIGITS

Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778

Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787

Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502

Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505

- Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Binary concatenated coding system
[NASA-CASE-MS-C-14082-1] c 60 N76-23850
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
- BINARY FLUIDS**
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
- BINARY TO DECIMAL CONVERTERS**
Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
- BINDERS (MATERIALS)**
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-27244
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122
- BINOCLARIS**
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
- BIOASSAY**
Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MS-C-16260-1] c 51 N80-16714
- BIOCHEMISTRY**
A culture vessel with large perfusion area to volume ratio
[NASA-CASE-MS-C-21662-1] c 51 N91-17531
- BIODEGRADATION**
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
- BIODYNAMICS**
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Kinesimetric method and apparatus
[NASA-CASE-MS-C-18929-1] c 39 N83-20280
Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795
- BIOELECTRIC POTENTIAL**
Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MS-C-90153-2] c 05 N72-25120
- Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769
- BIOELECTRICITY**
Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
- BIOENGINEERING**
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
Urine collection device
[NASA-CASE-MS-C-16433-1] c 52 N81-24711
Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MS-C-18761-1] c 52 N83-27577
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
- BIOINSTRUMENTATION**
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MS-C-13282-1] c 05 N71-24729
Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
Snap-in compressible biomedical electrode
[NASA-CASE-MS-C-14623-1] c 52 N77-28717
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MS-C-16777-1] c 51 N80-27067
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Logic-controlled occlusive cuff system
[NASA-CASE-MS-C-14836-1] c 52 N82-11770
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
- BIOLOGICAL EFFECTS**
Rotating bio-reactor cell culture apparatus
[NASA-CASE-MS-C-21293-1] c 51 N91-21700
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MS-C-21775-1] c 52 N92-11627
- BIO LUMINESCENCE**
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
- BIOMEDICAL DATA**
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
- BIOMETRICS**
Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
Compressible biomedical electrode
[NASA-CASE-MS-C-13648] c 05 N72-27103
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
- BIOPROCESSING**
Spiral vane bioreactor
[NASA-CASE-MS-C-21361-1] c 51 N91-21701
- BIOREACTORS**
Three-dimensional coculture process
[NASA-CASE-MS-C-21560-1] c 51 N90-18852
Bio-reactor chamber
[NASA-CASE-MS-C-20929-1] c 51 N91-14703
Rotating bio-reactor cell culture apparatus
[NASA-CASE-MS-C-21293-1] c 51 N91-21700
Spiral vane bioreactor
[NASA-CASE-MS-C-21361-1] c 51 N91-21701
Horizontally rotated cell culture system with a coaxial tubular oxygenator
[NASA-CASE-MS-C-21294-1] c 51 N91-30667
Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MS-C-21936-1] c 25 N92-19486
- BIOTECHNOLOGY**
Bio-reactor chamber
[NASA-CASE-MS-C-20929-1] c 51 N91-14703
Rotating bio-reactor cell culture apparatus
[NASA-CASE-MS-C-21293-1] c 51 N91-21700
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621
- BIOTELEMETRY**
Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MS-C-14180-1] c 52 N76-14757
Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c 17 N76-29347
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
- BIPOLAR TRANSISTORS**
Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841
Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196
- BIPOLARITY**
Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196
- BIREFRINGENCE**
Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N92-16290

BIREFRINGENT FILTERS

Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N92-16290

BISMALEIMIDE
Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560
Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418
N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419

BISMUTH
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

BISMUTH COMPOUNDS
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213

BISTABLE CIRCUITS
AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910

BIT ERROR RATE
Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622

BIT SYNCHRONIZATION
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132

BITERNARY CODE
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917

BITS
Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MS-C-12743-1] c 32 N79-10263

BITUMENS
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012

BLACK BODY RADIATION
Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474

BLADDER
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621

BLADE TIPS
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

BLADES
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468

BLADES (CUTTERS)
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017

Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773

Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730

BLAST LOADS
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959

BLOCK COPOLYMERS
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953

BLOOD
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MS-C-21775-1] c 52 N92-11627

BLOOD FLOW
Logic-controlled occlusive cuff system
[NASA-CASE-LAR-14836-1] c 52 N82-11770

BLOOD PRESSURE
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MS-C-13999-1] c 52 N74-26626
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531

BLOOD VESSELS
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991

BLUFF BODIES
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939

BLUNT BODIES
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436

BODIES OF REVOLUTION
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

BODY FLUIDS
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605

BODY KINEMATICS
Space suit having improved waist and torso movement
[NASA-CASE-ARC-10275-1] c 05 N72-22092
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Kinesimetric method and apparatus
[NASA-CASE-MS-C-18929-1] c 39 N83-20280

BODY MEASUREMENT (BIOLOGY)
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Kinesimetric method and apparatus
[NASA-CASE-MS-C-18929-1] c 39 N83-20280
Apparatus for determining changes in limb volume
[NASA-CASE-MS-C-18759-1] c 52 N83-27578

BODY TEMPERATURE
Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

BODY VOLUME (BIOLOGY)
Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MS-C-13972-1] c 52 N74-10975
Apparatus for determining changes in limb volume
[NASA-CASE-MS-C-18759-1] c 52 N83-27578

BODY-WING CONFIGURATIONS
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061

Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

BOILERS
Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597

BOILING
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

BOLOMETERS
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449

BOLTED JOINTS
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N91-15544

BOLTS
Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967

BONDING
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MS-C-14182-1] c 27 N76-14264
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MS-C-18741-1] c 27 N82-29456
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MS-C-18382-2] c 27 N84-14324
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298
A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121

- A method and apparatus for indicating disbands in joint regions
[NASA-CASE-LAR-14626-1] c 38 N92-17859
- BONES**
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
- BOOLEAN ALGEBRA**
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
- BOOMS (EQUIPMENT)**
Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621
- BOOSTER RECOVERY**
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Orbiter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
- BOOSTER ROCKET ENGINES**
Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584
- BOOTS (FOOTWEAR)**
Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
- BOREHOLES**
Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491
- BORIDES**
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489
- BORING MACHINES**
Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518
Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709
- BORON**
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
- BORON CARBIDES**
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922
- BORON CHLORIDES**
Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698
- BORON COMPOUNDS**
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
- BORON FLUORIDES**
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
- BORON OXIDES**
Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026
- BOROSILICATE GLASS**
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N91-28546
Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026
- BOULES**
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
- BOUNDARY CONDITIONS**
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184
- BOUNDARY LAYER CONTROL**
Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562
Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410
- BOUNDARY LAYER FLOW**
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
- BOUNDARY LAYER SEPARATION**
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
- BOUNDARY LAYER TRANSITION**
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562
- BOUNDARY LAYERS**
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
- BOXES (CONTAINERS)**
Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355
- BRACKETS**
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388
Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N91-26543
- BRAGG CELLS**
Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392
- BRaille**
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372
- BRakes**
Preloaded brake disc
[NASA-CASE-MSC-21132-1] c 37 N88-29181
- BRakes (FOR ARRESTING MOTION)**
Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479
Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601
- Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514
- BRaking**
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652
Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N91-28579
Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N92-21728
- BRAZING**
Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
- BREATHING APPARATUS**
Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
- BRICKS**
Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
- BRIDGMAN METHOD**
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
- BRIGHTNESS**
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
- BRIGHTNESS DISCRIMINATION**
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890
- BRITTLENESS**
Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462
- BROADBAND**
Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720
Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

BROADBAND AMPLIFIERS

Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N90-27595

BROADBAND AMPLIFIERS

Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415

BROADCASTING

Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128

BROMINATION

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N92-10090

BROMINE

Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641
Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N92-10090

BROMINE COMPOUNDS

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

BRONZES

Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

BRUSH SEALS

High temperature, flexible pressure-actuated, brush seal
[NASA-CASE-LEW-15086-1] c 37 N92-16318

BRUSHES

Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818

BRUSHES (ELECTRICAL CONTACTS)

Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

BUBBLES

Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

BUCKLING

Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323

BUFFER STORAGE

Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
Buffered analog converter
[NASA-CASE-KSC-10397] c 08 N72-25206
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

BUFFERS (CHEMISTRY)

Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

BUILDINGS

Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454

BULBS

External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362

BULKHEADS

Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N91-25415
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N92-21727

BUOYANCY

Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063

BURNERS

Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276

BURNING RATE

Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255

BURNOUT

Spherically-shaped rocket motor Patent
[NASA-CASE-XHO-01897] c 28 N70-35381

BURNS (INJURIES)

Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914

BUS CONDUCTORS

Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420

BUSHINGS

Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N91-21221

BUTANES

Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

BUTT JOINTS

Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376

BUTTERFLY VALVES

Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376
Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609

BUTYRIC ACID

Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

BYPASSES

Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

C

CABLE FORCE RECORDERS

Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599

CABLES

Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N80-23742

CABLES (ROPES)

High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
Cable arrangement for rigid tethering Patent
[NASA-CASE-XLA-02332] c 32 N71-17609
Extendible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064
Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994
Flexible/rigidifiable cable assembly
[NASA-CASE-MSC-13512-1] c 15 N72-22485

Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453

Reefing system

[NASA-CASE-LAR-10129-2] c 37 N74-20063
Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844
Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139

CADMIUM COMPOUNDS

Pretreatment of lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423
Solid lubricants on pretreated surfaces
[NASA-CASE-LEW-14474-2] c 27 N92-11186

CADMIUM SULFIDES

High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
CdS solid state phase insensitive ultrasonic transducer --- annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

CALCIUM

Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271

CALCIUM FLUORIDES

Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Method of making self lubricating fluoride-metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105

CALCIUM OXIDES

Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

CALCIUM PHOSPHATES

Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

CALCULATORS

Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552

CALCULI

Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913

CALIBRATING

Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Electronically scanned pressure sensor module with in situ calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767

- Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
- Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
- Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
- Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
- Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
- Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
- CALORIMETERS**
- Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
- Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
- Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
- CAMERA SHUTTERS**
- Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
- Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
- Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
- Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
- CAMERAS**
- Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
- Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
- Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
- Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
- Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c 14 N72-22441
- On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
- Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
- Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
- Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
- Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
- Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402
- Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809
- Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864
- CAMS**
- Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
- Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
- CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
- CANARD CONFIGURATIONS**
- Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
- Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
- Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
- CANCER**
- Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
- Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
- CANNING**
- One step HIP canning of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493
- CANOPIES**
- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
- Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
- Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
- CANS**
- Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
- Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
- Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145
- CANTILEVER BEAMS**
- Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
- Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
- CANTILEVER MEMBERS**
- Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
- Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
- Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
- CAPACITANCE**
- Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
- Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
- Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
- Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
- Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
- Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
- Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
- Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149
- Driven shielding capacitive proximity sensor
[NASA-CASE-GSC-13377-1] c 63 N91-28785
- CAPACITANCE SWITCHES**
- Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
- Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
- Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
- CAPACITORS**
- Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
- Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
- Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
- Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
- Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
- Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
- Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
- Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
- Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
- Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
- High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
- Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
- Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
- Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
- Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
- Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
- Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412
- Transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N92-17907
- CAPILLARY FLOW**
- Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
- Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048
- Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
- Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
- Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
- Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
- CAPILLARY TUBES**
- Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
- Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
- Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
- Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
- Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541
- CARBAZOLES**
- Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
- CARBIDES**
- Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
- Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
- CARBOHYDRATES**
- Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
- Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MSC-21936-1] c 25 N92-19486
- CARBON**
- Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
- Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
- Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
- Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
- Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
- Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
- Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
- Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
- Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
- CARBON ARCS**
- Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
- CARBON COMPOUNDS**
- Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
- Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152

- Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
- CARBON DIOXIDE**
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750
Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
[NASA-CASE-LEW-14973-1] c 44 N92-10222
- CARBON DIOXIDE LASERS**
Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11845-1] c 36 N76-18427
- CARBON DIOXIDE REMOVAL**
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803
- CARBON FIBER REINFORCED PLASTICS**
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
- CARBON FIBERS**
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436
Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289
Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N92-10090
Intercalated hybrid graphite fiber composite
[NASA-CASE-LEW-15241-1] c 24 N92-17861
Storing fluorine gas in carbon fibers and releasing the same
[NASA-CASE-LEW-15359-1] c 25 N92-17902
- CARBON MONOXIDE**
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270
- CARBON-CARBON COMPOSITES**
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042
Braided composite fasteners and method for producing same
[NASA-CASE-LAR-14062-1] c 37 N90-27114
- CARBONACEOUS MATERIALS**
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
- CARBONATES**
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

CARBONIZATION

- Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789

CARBONYL COMPOUNDS

- Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N91-13561

CARBORANE

- Process for the preparation of polycarboranylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
Carboranylchlorotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
Carboranylmethylenesubstituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

CARBOXYL GROUP

- Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929

CARBOXYLIC ACIDS

- Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455

CARCINOGENS

- Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676

CARDIAC VENTRICLES

- Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724

CARDIOGRAPHY

- Digital cardiactachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760

CARDIOLOGY

- Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895

CARDIOTACHOMETERS

- Digital computing cardiactachometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778

CARDIOVASCULAR SYSTEM

- G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388

CARGO

- Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294

CARRIER FREQUENCIES

- Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

- Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

CARRIER LIFETIME

- Method of increasing minority carrier lifetime in silicon web of the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894

CARRIER WAVES

- Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

CARRIERS

- Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744

CARTESIAN COORDINATES

- Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179
Two dimensional vernier
[NASA-CASE-MSC-21700-1] c 35 N91-23462
Two dimensional vernier
[NASA-CASE-MSC-21700-1] c 35 N92-22039

CARTRIDGES

- Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813

CASCADE CONTROL

- Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245

CASCADE FLOW

- Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

CASE BONDED PROPELLANTS

- Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179

CASES (CONTAINERS)

- Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817

CASSEGRAIN ANTENNAS

- Cassegrain antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000

CASSEGRAIN OPTICS

- Wide acceptance angle, high concentration ratio, optical collector
[NASA-CASE-MFS-28295-1] c 74 N91-13999

CASTING

- Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303
High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425

- Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
A tough performance simultaneous
semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955
Novel polyimide molding powder, coating, adhesive, and
matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559
Helmet of a laminate construction of polycarbonate and
polysulfone polymeric material
[NASA-CASE-MS-C-21503-1] c 27 N92-10091
- CASTINGS**
Method of making an apertured casting --- using
duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
- CATALYSIS**
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
Start up system for hydrogen generator used with an
internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
- CATALYSTS**
Catalyst for growth of boron carbide single crystal
whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Catalysts for polyimide foams from aromatic isocyanates
and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Mixed polyvalent-monovalent metal coating for
carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
Negative electrode catalyst for the iron chromium redox
energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270
- CATALYTIC ACTIVITY**
Diesel engine catalytic combustor system --- aircraft
engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
- CATCHERS**
Load limiting energy absorbing lightweight debris
catcher
[NASA-CASE-MS-C-21562-1] c 16 N92-16007
- CATHETERIZATION**
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Catheter tip force transducer for cardiovascular
research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Ion beam sputter-etched ventricular catheter for
hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
Method of making an ion beam sputter-etched
ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- CATHODE RAY TUBES**
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Electron beam tube containing a multiple cathode array
employing indexing means for cathode substitution
Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
Color television systems using a single gun color cathode
ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
- Very high intensity light source using a cathode ray tube
--- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250
- CATHODES**
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Electronic cathode having a brush-like structure and a
relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Heat activated cell with alkali anode and alkali salt
electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Ion thruster with a combination keeper electrode and
electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Storage battery comprising negative plates of a wedge
shaped configuration --- for preventing shape change
induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Method and apparatus for rebalancing a REDOX flow
cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538
Plasma gun with coaxial powder feed and adjustable
cathode
[NASA-CASE-LEW-14901-1] c 75 N91-25875
Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478
Alkali metal carbon dioxide electrochemical system for
energy storage and/or conversion of carbon dioxide to
oxygen
[NASA-CASE-LEW-14973-1] c 44 N92-10222
- CATHOLYTES**
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
- CATIONS**
Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
Viscoelastic cationic polymers containing the urethane
linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
- CAVITATION FLOW**
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
- CAVITIES**
Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362
Method of constructing dished ion thruster grids to
provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
Method and apparatus for producing concentric hollow
spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MS-C-18606-1] c 32 N82-11336
High performance channel injection sealant invention
abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706
Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N91-27156
- CAVITY RESONATORS**
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
System for improving signal-to-noise ratio of a
communication signal Patent Application
[NASA-CASE-MS-C-12259-1] c 07 N70-12616
Temperature-compensating means for cavity resonator
of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
- System for improving signal-to-noise ratio of a
communication signal
[NASA-CASE-MS-C-12259-2] c 07 N72-33146
Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
Three point lead screw positioning apparatus
[NASA-CASE-LEW-15216-1] c 37 N92-17678
- CELESTIAL BODIES**
Device for determining relative angular position between
a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
Position determination systems --- using orbital antenna
scan of celestial bodies
[NASA-CASE-MS-C-12593-1] c 17 N76-21250
- CELESTIAL NAVIGATION**
Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797
- CELL ANODES**
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
- CELL DIVISION**
Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769
A culture vessel with large perfusion area to volume
ratio
[NASA-CASE-MS-C-21662-1] c 51 N91-17531
- CELLS**
Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
- CELLS (BIOLOGY)**
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
Method for separating biological cells --- suspended in
aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Controlled method of reducing electrophoretic mobility
of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
Three-dimensional coculture process
[NASA-CASE-MS-C-21560-1] c 51 N90-18852
Three-dimensional cell to tissue assembly process
[NASA-CASE-MS-C-21559-1] c 51 N91-13860
A culture vessel with large perfusion area to volume
ratio
[NASA-CASE-MS-C-21662-1] c 51 N91-17531
Rotating bio-reactor cell culture apparatus
[NASA-CASE-MS-C-21293-1] c 51 N91-21700
Spiral vane bioreactor
[NASA-CASE-MS-C-21361-1] c 51 N91-21701
Horizontally rotated cell culture system with a coaxial
tubular oxygenator
[NASA-CASE-MS-C-21294-1] c 51 N91-30667
- CELLULOSE**
Process of treating cellulosic membrane and alkaline
with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline electric cells and method of
making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Aqueous alkali metal hydroxide insoluble cellulose ether
membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
Apparatus and method for cellulose processing using
microwave pretreatment
[NASA-CASE-MS-C-21936-1] c 25 N92-19486
- CELLULOSE NITRATE**
Oxidation resistant slurry coating for carbon-based
materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- CENTERBODIES**
Multi-body aircraft with an all-movable center fuselage
actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
- CENTRAL PROCESSING UNITS**
Pipelined digital SAR azimuth correlator using hybrid
FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

CENTRIFUGAL COMPRESSORS

Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081

CENTRIFUGAL FORCE

Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236

CENTRIFUGES

Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815

Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079

Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608

Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282

Bio-centrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829

CERAMIC BONDING

Method of making a diffusion bonded refractory coating Patent

[NASA-CASE-XLE-01604-2] c 15 N71-15610

Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312

Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981

CERAMIC COATINGS

Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483

Unfired-ceramic flame-resistant insulation and method of making the same Patent

[NASA-CASE-XMF-01030] c 18 N70-41583

Ceramic insulation for radiant heating environments and method of preparing the same Patent

[NASA-CASE-MFS-14253] c 33 N71-24858

Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729

Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377

Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426

Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492

Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996

Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855

Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266

Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628

Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N91-23491

Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298

Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-2] c 27 N91-32229

Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726

CERAMIC HONEYCOMBS

Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737

CERAMIC MATRIX COMPOSITES

Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656

Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538

CERAMIC NUCLEAR FUELS

Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729

CERAMICS

Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226

Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998

Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088

Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032

Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464

Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584

Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206

High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302

Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221

High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213

Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371

Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674

Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453

Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748

Method of fabricating an abrasible gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886

Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040

Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538

Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216

Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541

Lightweight ceramic insulation and method
[NASA-CASE-MSC-20782-1] c 27 N90-23566

Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N91-13500

Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502

Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412

Method of applying a thermal barrier coating system to a substrate
[NASA-CASE-LEW-15020-2] c 24 N91-25202

Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298

Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N91-25875

Method of preparing a thermal barrier coating
[NASA-CASE-LEW-14999-2] c 27 N91-26376

Method of preforming and assembling superconducting circuit elements
[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490

Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236

Low cost, formable, high T(sub c) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529

Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122

Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N92-21725

CEREBROSPINAL FLUID

Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785

Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

CERMETS

Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076

Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729

Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311

High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217

High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302

High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213

Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855

Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555

CESIUM

Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773

Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

CESIUM DIODES

Thermionic tantalum emitter doped with oxygen Patent
[NASA-CASE-NPO-11138] c 03 N70-34646

Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421

Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

CESIUM ENGINES

Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802

Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197

CESIUM VAPOR

Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524

CHALCOGENIDES

Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

CHAMBERS

Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749

CHANGE DETECTION

Real-time image difference detection using a polarization rotation spatial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305

CHANNEL FLOW

Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818

Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569

Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

CHANNELS (DATA TRANSMISSION)

Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843

Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224

Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195

High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252

CHARACTER RECOGNITION

Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353

System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896

CHARACTERIZATION

Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527

CHARGE COUPLED DEVICES

Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288

CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396

Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247

Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

Portable dynamic fundus instrument
[NASA-CASE-MSC-21675-1] c 52 N91-13865

X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835

CHARGE DISTRIBUTION

Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189

- Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
- CHARGE EFFICIENCY**
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
- CHARGE EXCHANGE**
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
- CHARGE TRANSFER**
Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621
- CHARGE TRANSFER DEVICES**
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
- CHARGED PARTICLES**
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
- CHARGING**
Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020
- CHARRING**
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
- CHASSIS**
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153
- CHECKOUT**
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
- CHELATES**
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
Production of mullite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870
- CHEMICAL ANALYSIS**
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
- CHEMICAL AUXILIARY POWER UNITS**
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
- CHEMICAL BONDS**
Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
Polyimides containing amide and perfluoroisopropyl connecting groups
[NASA-CASE-LAR-14608-1] c 27 N92-17676
- CHEMICAL COMPOSITION**
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
Novel polyimide compositions based on 4,4'-isophthaloyldiphthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
Polyimideazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N91-23237
Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N91-32167
Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N92-10090
- CHEMICAL COMPOUNDS**
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
- CHEMICAL ELEMENTS**
Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123
- CHEMICAL ENGINEERING**
Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162
- CHEMICAL EXPLOSIONS**
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084
- CHEMICAL INDICATORS**
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035
- CHEMICAL MACHINING**
Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033
- CHEMICAL PROPERTIES**
Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
- Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
- CHEMICAL REACTIONS**
Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237
Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
Metal containing polymers from cyclic tetrameric phenylphosphonitriamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
Process for preparation of high-molecular-weight polyaryloxyisilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
Self-cycling fluid heater
[NASA-CASE-MSC-15567-1] c 33 N73-16918
Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280

Sulfone-ester polymers containing pendent ethynyl groups
 [NASA-CASE-LAR-13316-1] c 27 N86-27450
 Preparation of B-trichloroborazine
 [NASA-CASE-ARC-11643-1-SB] c 23 N87-23698
 The 1-((diorganoxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
 [NASA-CASE-ARC-11425-2] c 23 N87-28605
 Polyimidazoles via aromatic nucleophilic displacement
 [NASA-CASE-LAR-14145-1] c 27 N90-26954
 Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
 [NASA-CASE-LEW-14345-4] c 23 N91-25185
 Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
 [NASA-CASE-LAR-14440-1] c 23 N92-10066
 Diphenylmethane-containing dianhydride and polyimides prepared therefrom
 [NASA-CASE-LAR-14487-1] c 27 N92-11200
 Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
 [NASA-CASE-LEW-14345-6] c 23 N92-17882

CHEMICAL REACTORS
 Chemical vapor deposition reactor --- providing uniform film thickness
 [NASA-CASE-NPO-13650-1] c 25 N79-28253
 Sodium storage and injection system
 [NASA-CASE-NPO-14384-1] c 37 N80-10494
 Method of producing silicon --- gas phase reactor multiple injector liquid feed system
 [NASA-CASE-NPO-14382-1] c 31 N80-18231
 Fluidized bed coal combustion reactor
 [NASA-CASE-NPO-14273-1] c 25 N82-11144
 Solar heated fluidized bed gasification system
 [NASA-CASE-NPO-15071-1] c 44 N82-16475
 Thermal reactor --- liquid silicon production from silane gas
 [NASA-CASE-NPO-14369-1] c 44 N83-10501
 Pressure letdown method and device for coal conversion systems
 [NASA-CASE-NPO-15100-1] c 44 N84-14583
 Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
 [NASA-CASE-NPO-15851-1] c 37 N85-21652
 Remotely controllable mixing system
 [NASA-CASE-NPO-28153-1] c 31 N86-32589

CHEMICAL TESTS
 Nondestructive spot test method for titanium and titanium alloys
 [NASA-CASE-LAR-10539-1] c 17 N73-12547
 Nondestructive spot test method for magnesium and magnesium alloys
 [NASA-CASE-LAR-10953-1] c 17 N73-27446
 Chemical approach for controlling nadimide cure temperature and rate
 [NASA-CASE-LEW-13770-6] c 25 N85-30039

CHEMILUMINESCENCE
 Method and apparatus for eliminating luminol interference material
 [NASA-CASE-MS-C-16260-1] c 51 N80-16714

CHEMISORPTION
 Oxygen chemisorption cryogenic refrigerator
 [NASA-CASE-NPO-16734-1-CU] c 31 N88-14223

CHEMOTHERAPY
 Indomethacin-antihistamine combination for gastric ulceration control
 [NASA-CASE-ARC-11118-2] c 52 N81-14613

CHIPS (ELECTRONICS)
 Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
 [NASA-CASE-NPO-15227-1] c 37 N81-33482
 Liquid immersion apparatus for minute articles
 [NASA-CASE-MFS-25363-1] c 37 N82-12441
 Miniaturization of flight deflection measurement system
 [NASA-CASE-LAR-13628-1] c 35 N90-23707
 VLSI architecture for a Reed-Solomon decoder
 [NASA-CASE-NPO-17897-1-CU] c 33 N90-27040
 Laterally stacked Schottky diodes for infrared sensor applications
 [NASA-CASE-NPO-17426-1-CU] c 33 N91-21434
 Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
 [NASA-CASE-NPO-17678-1-CU] c 76 N91-28014
 Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
 [NASA-CASE-NPO-17573-2-CU] c 33 N92-16196

CHIPS (MEMORY DEVICES)
 VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
 [NASA-CASE-NPO-17280-1-CU] c 17 N90-21061

CHIRP SIGNALS
 Method for shaping and aiming narrow beams --- sonar mapping and target identification
 [NASA-CASE-NPO-14632-1] c 32 N82-18443

CHLORIDES

The 5-(4-Ethynylphenoxy) isophthalic chloride
 [NASA-CASE-LAR-13316-2] c 27 N87-14515
 Metal chloride cathode for a battery
 [NASA-CASE-NPO-17809-1-CU] c 33 N91-27478
 Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
 [NASA-CASE-LAR-14440-1] c 23 N92-10066

CHLORINATION
 Specialized halogen generator for purification of water
 Patent
 [NASA-CASE-XLA-08913] c 14 N71-28933
 Coal desulfurization by aqueous chlorination
 [NASA-CASE-NPO-14902-1] c 25 N82-29371
 Hydrodesulfurization of chlorinated coal
 [NASA-CASE-NPO-15304-1] c 25 N83-31743

CHLORINE

Fluidized bed desulfurization
 [NASA-CASE-NPO-15924-1] c 25 N85-35253

CHLOROPRENE RESINS

Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
 [NASA-CASE-ARC-10180-1] c 27 N74-12814

CHOKES

Current dependent filter inductance
 [NASA-CASE-ERC-10139] c 09 N72-17154

CHOKES (RESTRICTIONS)

Variably positioned guide vanes for aerodynamic choking
 [NASA-CASE-LAR-10642-1] c 07 N74-31270
 Adjustable choke for fluids nozzle
 [NASA-CASE-NPO-17625-1-CU] c 34 N90-27070
 Adjustable steam producing flexible orifice independent of fluid pressure
 [NASA-CASE-NPO-17625-1-CU] c 34 N92-21724

CHOLESTEROL

Reduction of blood serum cholesterol
 [NASA-CASE-NPO-12119-1] c 52 N75-15270

CHROMATOGRAPHY

Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
 [NASA-CASE-ARC-10633-1] c 25 N74-26947
 Modulated voltage metastable ionization detector
 [NASA-CASE-ARC-11503-1] c 35 N85-34374

CHROMIUM

Selective coating for solar panels --- using black chrome and black nickel
 [NASA-CASE-LEW-12159-1] c 44 N78-19599
 Efficiency of silicon solar cells containing chromium
 [NASA-CASE-NPO-15179-1] c 44 N82-26777
 Process for improving moisture resistance of epoxy resins by addition of chromium ions
 [NASA-CASE-LAR-13226-1] c 27 N85-34282
 Negative electrode catalyst for the iron chromium redox energy storage system
 [NASA-CASE-LEW-14028-1] c 44 N86-19721

CHROMIUM ALLOYS

Method of heat treating age-hardenable alloys
 [NASA-CASE-NPO-01311] c 26 N75-29236
 Nickel ternary alloy having improved cyclic oxidation resistance
 [NASA-CASE-LEW-13339-1] c 26 N82-31505

CHROMIUM CARBIDES

Method of making carbide/fluoride/silver composites
 [NASA-CASE-LEW-14902-1] c 24 N91-27244

CHROMIUM COMPOUNDS

Chromium electrodes for REDOX cells
 [NASA-CASE-LEW-13653-1] c 44 N84-28205

CHROMOSOMES

Automated clinical system for chromosome analysis
 [NASA-CASE-NPO-13913-1] c 52 N79-12694

CINEMATOGRAPHY

High speed photo-optical time recording
 [NASA-CASE-KSC-10294] c 14 N72-18411
 Holographic motion picture camera with Doppler shift compensation
 [NASA-CASE-MFS-22517-1] c 35 N76-18402

CIRCLES (GEOMETRY)

Two dimensional vernier
 [NASA-CASE-MS-C-21700-1] c 35 N91-23462
 Two dimensional vernier
 [NASA-CASE-MS-C-21700-1] c 35 N92-22039

CIRCUIT BOARDS

Electrical feed-through connection for printed circuit boards and printed cable
 [NASA-CASE-XMF-01483] c 14 N69-27431
 Printed cable connector Patent
 [NASA-CASE-XMF-00369] c 09 N70-36494
 Printed circuit board with bellows rivet connection Patent
 [NASA-CASE-XNP-05082] c 15 N70-41960
 Electrical spot terminal assembly Patent
 [NASA-CASE-NPO-10034] c 15 N71-17685

Polyimide resin-fiberglass cloth laminates for printed circuit boards
 [NASA-CASE-MFS-20408] c 18 N73-12604
 Circuit board package with wedge shaped covers
 [NASA-CASE-MFS-21919-1] c 10 N73-25243
 Tool for use in lifting pin supported objects
 [NASA-CASE-NPO-13157-1] c 37 N74-32918
 Shock absorbing mount for electrical components
 [NASA-CASE-NPO-13253-1] c 37 N75-18573
 Connector --- for connecting circuits on different layers of multilayer printed circuit boards
 [NASA-CASE-LAR-11709-1] c 37 N76-27567
 Traveling wave tube circuit
 [NASA-CASE-LEW-12013-1] c 33 N79-10339
 High stability amplifier
 [NASA-CASE-GSC-12646-1] c 33 N83-34191
 Beam forming network
 [NASA-CASE-NPO-15743-1] c 32 N85-29118

CIRCUIT BREAKERS

Mercury capillary interrupter Patent
 [NASA-CASE-XNP-02251] c 12 N71-20896
 Diode and protection fuse unit Patent
 [NASA-CASE-XKS-03381] c 09 N71-22796
 Separation simulator Patent
 [NASA-CASE-XKS-04631] c 10 N71-23663
 Detenting servomotor Patent
 [NASA-CASE-XNP-06936] c 15 N71-24695
 Circuit breaker utilizing magnetic latching relays Patent
 [NASA-CASE-MS-C-11277] c 09 N71-29008
 Multiple circuit protector device
 [NASA-CASE-XMS-02744] c 33 N75-27249
 Solar concentrator protective system
 [NASA-CASE-NPO-15662-1] c 44 N84-28204

CIRCUIT DIAGRAMS

Excitation and detection circuitry for a flux responsive magnetic head
 [NASA-CASE-XNP-04183] c 09 N69-24329
 Signal multiplexer
 [NASA-CASE-XGS-01110] c 07 N69-24334
 Ring counter
 [NASA-CASE-XGS-03095] c 09 N69-27463
 Solid state switch
 [NASA-CASE-XNP-09228] c 09 N69-27500
 Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
 [NASA-CASE-XGS-00381] c 09 N70-34819
 Frequency shift keyed demodulator Patent
 [NASA-CASE-XGS-02889] c 07 N71-11282
 Difference circuit Patent
 [NASA-CASE-XNP-08274] c 10 N71-13537
 High voltage transistor circuit Patent
 [NASA-CASE-XNP-06937] c 09 N71-19516
 Weld control system using thermocouple wire Patent
 [NASA-CASE-MFS-06074] c 15 N71-20393
 Correlation function apparatus Patent
 [NASA-CASE-XNP-00746] c 07 N71-21476
 Diode and protection fuse unit Patent
 [NASA-CASE-XKS-03381] c 09 N71-22796
 Buck boost voltage regulation circuit Patent
 [NASA-CASE-GSC-10735-1] c 10 N71-26085
 Active RC networks
 [NASA-CASE-ARC-10042-2] c 10 N72-11256
 Microcircuit negative cutter
 [NASA-CASE-XLA-09843] c 15 N72-27485
 Self-regulating proportionally controlled heating apparatus and technique
 [NASA-CASE-GSC-11752-1] c 77 N75-20140
 Symmetrical odd-modulus frequency divider
 [NASA-CASE-NPO-13426-1] c 33 N75-31330
 Trielectrode capacitive pressure transducer
 [NASA-CASE-ARC-10711-2] c 33 N76-21390
 Frequency discriminator and phase detector circuit
 [NASA-CASE-NPO-11515-1] c 33 N77-13315

CIRCUIT PROTECTION

Protection for energy conversion systems
 [NASA-CASE-XGS-04808] c 03 N69-25146
 Protective circuit of the spark gap type
 [NASA-CASE-XAC-08981] c 09 N69-39897
 Electrical load protection device Patent
 [NASA-CASE-MS-C-12135-1] c 09 N71-12526
 Apparatus for overcurrent protection of a push-pull amplifier Patent
 [NASA-CASE-MS-C-12033-1] c 09 N71-13531
 Method of coating circuit paths on printed circuit boards with solder Patent
 [NASA-CASE-XMF-01599] c 09 N71-20705
 Power supply circuit Patent
 [NASA-CASE-XMS-00913] c 10 N71-23543
 Selective plating of etched circuits without removing previous plating Patent
 [NASA-CASE-XGS-03120] c 15 N71-24047
 Failure sensing and protection circuit for converter networks Patent
 [NASA-CASE-GSC-10114-1] c 10 N71-27366

- Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
- Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
- Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
- Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
- Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
- Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
- Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
- Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
- Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393
- Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
- Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
- Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
- Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537
- CIRCUIT RELIABILITY**
- Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
- Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231
- CIRCUITS**
- Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
- Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
- Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
- Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
- Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
- High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
- Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
- Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
- Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
- Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
- Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
- Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
- Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
- Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
- Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
- Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
- Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
- Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
- Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
- Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
- Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
- Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531
- Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479
- High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
- Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
- Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
- Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
- Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
- Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
- Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974
- High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
- Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
- Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
- Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939
- Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095
- Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816
- Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
- Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N91-23490
- Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
- Method of preforming and assembling superconducting circuit elements
[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490
- Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
- CIRCULAR CONES**
- Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298
- CIRCULAR CYLINDERS**
- Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
- CIRCULAR POLARIZATION**
- Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
- Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
- Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
- Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104
- CIRCULAR TUBES**
- Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
- Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
- Substantially oxygen-free contact tube
[NASA-CASE-LAR-14169-1] c 37 N92-17677
- CIRCULATION CONTROL AIRFOILS**
- Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- CIRCULATORS (PHASE SHIFT CIRCUITS)**
- Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
- Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
- CIRCUMFERENCES**
- Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706
- CLADDING**
- Cladding for transverse-pumped solid-state laser
[NASA-CASE-NPO-17355-1-CU] c 36 N91-17360
- Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
[NASA-CASE-LAR-13562-2] c 24 N91-25199
- CLAMPING CIRCUITS**
- Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
- CLAMPS**
- Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
- Hydraulic grip Patent
[NASA-CASE-XLA-05100] c 15 N71-17696
- Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
- Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
- Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994
- Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
- Reusable thermal cycling clamp
[NASA-CASE-LAR-12868-1] c 37 N85-21651
- Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
- Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154
- Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
- Canilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
- Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-14617
- Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N91-21221
- Apparatus for joining trusses
[NASA-CASE-MFS-28545-1] c 31 N91-25306
- Quick action clamp
[NASA-CASE-LEW-14887-1] c 37 N91-27561
- Power saw
[NASA-CASE-MSC-21469-1] c 37 N91-31655
- CLASSIFICATIONS**
- General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911
- CLAYS**
- Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
- CLEAN ROOMS**
- Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137
- CLEANERS**
- Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
- Noncontaminating swabs
[NASA-CASE-MFS-18100] c 15 N72-11390
- Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
- Whole body cleansing agent
[NASA-CASE-MSC-21589-1] c 54 N91-16566
- Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222
- CLEANING**
- Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
- System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
- Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
- Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035
- Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222
- CLEAR AIR TURBULENCE**
- Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
- Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
- CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
- Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N91-23662
- CLEARANCES**
- Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
- Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
- CLEAVAGE**
- Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
- Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083
- CLIMBING FLIGHT**
- Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
- Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

CLINICAL MEDICINE

- Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
- Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
- Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379
- Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
- Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
- Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
- CLIPS**
- Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
- Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
- Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113
- CLOCKS**
- Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
- Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
- Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MS-C-12531-1] c 35 N75-30504
- Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392
- Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713
- Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-10125
- CLOSED CIRCUIT TELEVISION**
- Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MS-C-12559-1] c 18 N76-14186
- CLOSED CYCLES**
- Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
- Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
- Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
- CLOSED ECOLOGICAL SYSTEMS**
- Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
- Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750
- Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MS-C-14771-1] c 54 N77-32722
- Cell and method for electrolysis of water and anode
[NASA-CASE-MS-C-16394-1] c 28 N81-24280
- Method and apparatus for bio-regenerative life support system
[NASA-CASE-MS-C-21629-1] c 54 N91-31803
- CLOSTRIDIUM**
- Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
- CLOSURES**
- Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
- Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
- CLOUD CHAMBERS**
- Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374
- CLOUD COVER**
- Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
- CLOUDS (METEOROLOGY)**
- Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
- Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862
- CLUTCHES**
- Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
- Non-backdrivable free wheeling coupling
[NASA-CASE-MS-C-20475-1] c 37 N87-17037
- Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970

CLUTTER

- Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
- Method and apparatus for measuring distance
[NASA-CASE-MS-C-20912-1] c 32 N88-26568
- Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
- CMOS**
- Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
- Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438
- COAGULATION**
- Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562
- COAL**
- Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
- Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
- Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
- Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
- Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
- Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
- Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
- Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
- Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
- Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
- Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
- Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722
- Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
- COAL GASIFICATION**
- Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
- Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
- Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276
- Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495
- COAL LIQUEFACTION**
- Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
- COAL UTILIZATION**
- Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
- Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
- Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
- COATING**
- Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
- Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
- Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
- Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
- Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
- Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
- Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
- Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559
- Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298

COATINGS

- Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
- High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
- Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
- Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227
- Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
- Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
- Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
- Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
- Method of insulating predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197
- Process for bonding elastomers to metal
[NASA-CASE-LAR-13645-1] c 27 N91-28424
- COAXIAL CABLES**
- Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
- Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
- Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
- Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
- Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
- Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
- System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
- Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
- High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285
- Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270
- COAXIAL PLASMA ACCELERATORS**
- Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
- COBALT**
- Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
- Metal (2,4,4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
- COBALT ALLOYS**
- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
- High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
- Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
- COBALT COMPOUNDS**
- Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025
- Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561
- COBALT OXIDES**
- High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
- COCKPIT SIMULATORS**
- Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
- COCKPITS**
- Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
- CODERS**
- Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
- Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
- Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MS-C-14070-1] c 32 N74-32598

Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946

Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404

VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061

Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508

CODING

Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749

Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217

Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850

Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239

Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946

Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N91-14001

Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128

COEFFICIENT OF FRICTION

Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489

Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382

COENZYMES

Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149

COHERENT ELECTROMAGNETIC RADIATION

Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550

Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551

Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065

COHERENT LIGHT

Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565

Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895

Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994

COHERENT RADIATION

Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536

Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284

Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009

Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425

Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575

Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589

COINCIDENCE CIRCUITS

Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331

COLD CATHODES

Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327

COLD GAS

Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

COLD WELDING

Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455

COLD WORKING

Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346

COLLAPSE

Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152

COLLECTION

Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611

Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362

Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495

COLLIMATION

Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091

Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993

Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478

Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686

Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443

Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680

Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959

Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568

Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862

Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899

COLLIMATORS

X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240

Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389

Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616

Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443

Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072

Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515

Schlieren system for visualizing the flow within a pipe of circular cross-section
[NASA-CASE-LAR-13944-1] c 35 N92-11336

COLLISION AVOIDANCE

Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766

Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948

Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244

Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643

Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641

Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132

COLLISIONS

Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359

COLLOIDAL GENERATORS

Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265

COLLOIDAL PROPELLANTS

Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265

Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124

Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

COLLOIDS

The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874

COLOR

Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446

Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551

Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911

Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950

COLOR PHOTOGRAPHY

Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815

Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

COLOR TELEVISION

Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618

Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109

Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076

Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083

COLOR VISION

Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015

COLUMNS

Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258

COLUMNS (PROCESS ENGINEERING)

Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936

COLUMNS (SUPPORTS)

Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324

COMBINATORIAL ANALYSIS

Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

COMBINED CYCLE POWER GENERATION

Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

COMBUSTION

Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484

A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447

COMBUSTION CHAMBERS

Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503

Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241

Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411

Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535

Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249

Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818

Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507

Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968

Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736

Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455

Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665

Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919

Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190

Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224

Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357

Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151

Heat exchanger --- rocket combustion chambers and cooling systems
 [NASA-CASE-LEW-12252-1] c 34 N79-13288
 General purpose rocket furnace
 [NASA-CASE-MFS-23460-1] c 12 N79-26075
 Reduction of nitric oxide emissions from a combustor
 [NASA-CASE-ARC-10814-2] c 07 N80-26298
 Fluidized bed coal combustion reactor
 [NASA-CASE-NPO-14273-1] c 25 N82-11144
 Micronized coal burner facility
 [NASA-CASE-LEW-13426-1] c 25 N84-16276
 Heat pipes to reduce engine exhaust emissions
 [NASA-CASE-LEW-12590-1] c 37 N84-22958
 Combustor liner construction
 [NASA-CASE-LEW-14035-1] c 07 N84-24577
 A system for controlling the oxygen content of a gas produced by combustion
 [NASA-CASE-LAR-13257-1] c 25 N84-32447
 Diesel engine catalytic combustor system --- aircraft engines
 [NASA-CASE-LEW-12995-1] c 37 N84-33808
 Flow modifying device
 [NASA-CASE-LEW-13562-2] c 07 N85-35195
 Low loss injector for liquid propellant rocket engines
 [NASA-CASE-MFS-25989-1] c 20 N87-14420
 Steam cooled rich-burn combustor liner
 [NASA-CASE-LEW-13609-1] c 25 N90-11824
 High-pressure promoted combustion chamber
 [NASA-CASE-MSC-21470-1] c 09 N91-21157
 Method of injecting fluid propellants into a rocket combustion chamber
 [NASA-CASE-LEW-14846-2] c 20 N91-26200

COMBUSTION CONTROL
 Burning rate control of solid propellants Patent
 [NASA-CASE-XLE-03494] c 27 N71-21819

COMBUSTION EFFICIENCY
 Rocket engine injector Patent
 [NASA-CASE-XLE-00111] c 28 N70-38199
 Heat pipes to reduce engine exhaust emissions
 [NASA-CASE-LEW-12590-1] c 37 N84-22958

COMBUSTION PHYSICS
 Solid propellant rocket motor
 [NASA-CASE-NPO-11559] c 28 N73-24784
 Plasma igniter for internal combustion engine
 [NASA-CASE-NPO-13828-1] c 37 N79-11405

COMBUSTION PRODUCTS
 Separation nut Patent
 [NASA-CASE-XGS-01971] c 15 N71-15922
 Combustion products generating and metering device
 [NASA-CASE-GSC-11095-1] c 14 N72-10375
 System for minimizing internal combustion engine pollution emission
 [NASA-CASE-NPO-13402-1] c 37 N76-18457
 Coal desulfurization process
 [NASA-CASE-NPO-13937-1] c 44 N78-31527
 Combustor --- low nitrogen oxide formation
 [NASA-CASE-NPO-13958-1] c 25 N79-11151
 A system for controlling the oxygen content of a gas produced by combustion
 [NASA-CASE-LAR-13257-1] c 25 N84-32447
 Device for quickly sensing the amount of O₂ in a combustion product gas
 [NASA-CASE-LAR-13816-1] c 35 N90-22025

COMBUSTION STABILITY
 Control of transverse instability in rocket combustors Patent
 [NASA-CASE-XLE-04603] c 33 N71-21507
 Low loss injector for liquid propellant rocket engines
 [NASA-CASE-MFS-25989-1] c 20 N87-14420

COMET TAILS
 Ion mass spectrometer
 [NASA-CASE-NPO-15423-1] c 35 N84-28016

COMFORT
 Ride quality meter
 [NASA-CASE-LAR-12882-1] c 35 N84-12445

COMMAND AND CONTROL
 Multiple rate digital command detection system with range clean-up capability
 [NASA-CASE-NPO-13753-1] c 32 N77-20289
 Common data buffer system --- communication with computational equipment utilized in spacecraft operations
 [NASA-CASE-KSC-11048-1] c 62 N81-24779

COMMAND MODULES
 Low onset rate energy absorber
 [NASA-CASE-MSC-12279] c 15 N72-17450

COMMUNICATING
 Communications link for computers
 [NASA-CASE-NPO-11161] c 08 N72-25207

COMMUNICATION
 Correlation function apparatus Patent
 [NASA-CASE-XNP-00746] c 07 N71-21476
 System for improving signal-to-noise ratio of a communication signal
 [NASA-CASE-MSC-12259-2] c 07 N72-33146

COMMUNICATION CABLES

Method of making a molded connector Patent
 [NASA-CASE-XMF-03498] c 15 N71-15986
 Process for making RF shielded cable connector assemblies and the products formed thereby
 [NASA-CASE-GSC-11215-1] c 09 N73-28083
 Fiber distributed feedback laser
 [NASA-CASE-NPO-13531-1] c 36 N76-24553
 High-speed data link for moderate distances and noisy environments
 [NASA-CASE-NPO-14152-1] c 32 N80-18252
 High acceleration cable deployment system
 [NASA-CASE-ARC-11256-1] c 15 N82-24272
 Rotatable electric cable connecting system
 [NASA-CASE-GSC-12899-1] c 33 N86-20669

COMMUNICATION EQUIPMENT

Elimination of frequency shift in a multiplex communication system Patent
 [NASA-CASE-XNP-01306] c 07 N71-20814
 Decoder system Patent
 [NASA-CASE-NPO-10118] c 07 N71-24741
 Data-aided carrier tracking loops
 [NASA-CASE-NPO-11252-1] c 15 N82-24272
 Doppler compensation by shifting transmitted object frequency within limits
 [NASA-CASE-GSC-10087-4] c 07 N73-20174
 Differential phase shift keyed communication system
 [NASA-CASE-MSC-14065-1] c 32 N74-26654
 Doppler-corrected differential detection system
 [NASA-CASE-NPO-16987-1-CU] c 32 N91-25316

COMMUNICATION NETWORKS

Fault tolerant hypercube computer system architecture
 [NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
 Distributed computing system with dual independent communications paths between computers and employing split tokens
 [NASA-CASE-NPO-17185-1-CU] c 62 N91-14772

COMMUNICATION SATELLITES

Passive communication satellite Patent
 [NASA-CASE-XLA-00210] c 30 N70-40309
 Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
 [NASA-CASE-XGS-02607] c 31 N71-23009
 Deep space monitor communication satellite system Patent
 [NASA-CASE-XAC-06029-1] c 31 N71-24813
 Satellite communication system Patent
 [NASA-CASE-XNP-02389] c 07 N71-28900
 Satellite aided vehicle avoidance system
 [NASA-CASE-ERC-10419-1] c 03 N75-30132
 Ultra stable frequency distribution system
 [NASA-CASE-NPO-13836-1] c 32 N78-15323

COMMUTATION

High speed low level electrical stepping switch Patent
 [NASA-CASE-XAC-00060] c 09 N70-39915
 Elimination of current spikes in buck power converters
 [NASA-CASE-NPO-14505-1] c 33 N81-19393

COMMUTATORS

Scanning aspect sensor employing an apertured disc and a commutator
 [NASA-CASE-XGS-08266] c 14 N69-27432
 Current steering commutator
 [NASA-CASE-NPO-10743] c 08 N72-21199

COMPARATOR CIRCUITS

Digital frequency discriminator Patent
 [NASA-CASE-MFS-14322] c 08 N71-18692
 Pulsed differential comparator circuit Patent
 [NASA-CASE-XLE-03804] c 10 N71-19471
 Multi-cell battery protection system
 [NASA-CASE-LEW-12039-1] c 44 N78-14625
 Window comparator
 [NASA-CASE-FRC-10090-1] c 33 N78-18308

COMPARATORS

Fluid flow meter with comparator reference means Patent
 [NASA-CASE-XGS-01331] c 14 N71-22996
 Comparator for the comparison of two binary numbers Patent
 [NASA-CASE-XNP-04819] c 08 N71-23295
 High stability buffered phase comparator
 [NASA-CASE-GSC-12645-1] c 33 N84-16454
 Neighborhood comparison operator
 [NASA-CASE-NPO-16464-1-CU] c 60 N86-24224
 Comparator with noise suppression
 [NASA-CASE-LAR-13151-1] c 33 N87-21235
 Dual physiological rate measurement instrument
 [NASA-CASE-MSC-20078-3] c 52 N91-14709

COMPARTMENTS

Protein crystal growth tray assembly
 [NASA-CASE-MFS-28507-1] c 76 N91-23933
 Double face sealing device
 [NASA-CASE-MFS-28521-1] c 37 N91-26542

COMPATIBILITY

Imide/arylene ether copolymers
 [NASA-CASE-LAR-14159-1-CU] c 27 N90-26953

COMPENSATORS

Star image motion compensator
 [NASA-CASE-LAR-10523-1] c 14 N72-22444
 Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
 [NASA-CASE-GSC-12168-1] c 31 N79-17029
 Apparatus for and method of compensating dynamic unbalance
 [NASA-CASE-GSC-12550-1] c 37 N84-28082
 Compensation for primary reflector wavefront error
 [NASA-CASE-NPO-16869-1-CU] c 74 N86-33138

COMPLEX COMPOUNDS

Synthesis of polyformals
 [NASA-CASE-ARC-11244-1] c 23 N82-16174

COMPLEX SYSTEMS

Feedback controlled optics with wavefront compensation
 [NASA-CASE-NPO-18194-1-CU] c 74 N91-32924

COMPONENT RELIABILITY

Acoustic guide for noise-transmission testing of aircraft
 [NASA-CASE-LAR-13111-1-CU] c 71 N87-21652
 Dual cathode system for electron beam instruments
 [NASA-CASE-NPO-16878-1-CU] c 35 N90-20351

COMPOSITE MATERIALS

Reinforced metallic composites Patent
 [NASA-CASE-XLE-02428] c 17 N70-33288
 Method of making fiber reinforced metallic composites Patent
 [NASA-CASE-XLE-00231] c 17 N70-38198
 Reinforced metallic composites Patent
 [NASA-CASE-XLE-00228] c 17 N70-38490
 Unfired-ceramic flame-resistant insulation and method of making the same Patent
 [NASA-CASE-XMF-01030] c 18 N70-41583
 Process of casting heavy slips Patent
 [NASA-CASE-XLE-00106] c 15 N71-16076
 Lightweight refractory insulation and method of preparing the same Patent
 [NASA-CASE-XMF-05279] c 18 N71-16124
 Flexible composite membrane Patent
 [NASA-CASE-XNP-08837] c 18 N71-16210
 Low temperature flexure fatigue cryostat Patent
 [NASA-CASE-XMF-02964] c 14 N71-17659
 Method for producing fiber reinforced metallic composites Patent
 [NASA-CASE-XLE-03925] c 18 N71-22894
 Solar cell matrix
 [NASA-CASE-NPO-11190] c 03 N71-34044
 Method of forming shapes from planar sheets of thermosetting materials
 [NASA-CASE-NPO-11036] c 15 N72-24522
 Method of making fiber composites
 [NASA-CASE-LEW-10424-2-2] c 18 N72-25539
 Thermal compensating structural member
 [NASA-CASE-MFS-20433] c 15 N72-28496
 Bearing material --- composite material with low friction surface for rolling or sliding contact
 [NASA-CASE-LEW-11930-1] c 24 N76-22309
 Fluid seal for rotating shafts
 [NASA-CASE-LEW-11676-1] c 37 N76-22541
 Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
 [NASA-CASE-MSC-14331-1] c 27 N76-24405
 Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
 [NASA-CASE-MFS-22926-1] c 24 N77-27187
 Hybrid composite laminate structures
 [NASA-CASE-LEW-12118-1] c 24 N77-27188
 Honeycomb-laminate composite structure
 [NASA-CASE-ARC-10913-1] c 24 N78-15180
 High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
 [NASA-CASE-NPO-13690-1] c 27 N78-19302
 Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
 [NASA-CASE-LAR-12018-1] c 20 N78-24275
 Atomic hydrogen storage method and apparatus
 [NASA-CASE-LEW-12081-1] c 28 N78-24365
 Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
 [NASA-CASE-LEW-11930-4] c 24 N79-17916
 Composite seal for turbomachinery --- backings for turbine engine shrouds
 [NASA-CASE-LEW-12131-1] c 37 N79-18318
 Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
 [NASA-CASE-LAR-12099-1] c 27 N80-16158

- Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
- Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
- Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
- Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
- Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
- Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
- Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
- Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
- Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
- Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
- High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
- New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880
- Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
- Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320
- Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N91-23491
- Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
- Heat transfer device
[NASA-CASE-LEW-14162-2] c 24 N91-25201
- Process for application of powder particles to filamentary materials
[NASA-CASE-LAR-14231-1] c 24 N92-10070
- Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726
- COMPOSITE PROPELLANTS**
- Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
- Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
- Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
- COMPOSITE STRUCTURES**
- Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
- Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
- Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
- Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
- Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
- Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
- Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
- Aluminium or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
- Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
- Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
- Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
- Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737
- Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
- Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
- Method of inseting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197
- Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145
- Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
[NASA-CASE-LAR-13562-2] c 24 N91-25199
- COMPOSITION (PROPERTY)**
- Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393
- COMPRESSED AIR**
- Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
- COMPRESSIBILITY**
- Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
- Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078
- Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N91-23493
- COMPRESSIBLE FLUIDS**
- Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
- Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
- COMPRESSING**
- Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
- Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
- Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
- Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614
- Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333
- Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N91-23493
- Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198
- COMPRESSION LOADS**
- Pressure transducer
[NASA-CASE-NPO-10832] c 14 N72-21405
- Solid medium-thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
- Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
- Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
- Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737
- Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N91-23491
- Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726
- COMPRESSION RATIO**
- Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
- COMPRESSION TESTS**
- Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323
- Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
- Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
- Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
- COMPRESSIVE STRENGTH**
- Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786
- COMPRESSOR BLADES**
- Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
- Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
- COMPRESSOR ROTORS**
- Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
- COMPRESSORS**
- Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
- Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
- Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
- Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
- Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
- Magentically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
- Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223
- COMPUTATION**
- Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
- Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031
- COMPUTATIONAL GRIDS**
- Two dimensional vernier
[NASA-CASE-MSC-21700-1] c 35 N91-23462
- Two dimensional vernier
[NASA-CASE-MSC-21700-1] c 35 N92-22039
- COMPUTER AIDED MAPPING**
- Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N92-16563
- COMPUTER ANIMATION**
- Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340
- COMPUTER ASSISTED INSTRUCTION**
- System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944
- COMPUTER COMPONENTS**
- Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
- Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
- Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
- Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
- Neighborhood comparison operator
[NASA-CASE-NPO-16464-1-CU] c 60 N86-24224
- Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169
- COMPUTER DESIGN**
- Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
- Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
- Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
- Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992
- COMPUTER GRAPHICS**
- System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164
- Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340
- Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120
- Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126
- COMPUTER INFORMATION SECURITY**
- Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583
- COMPUTER NETWORKS**
- High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
- Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
- Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
- Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
- Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693

Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N92-15620

COMPUTER PROGRAMMING
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800
Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974
Neural-network dedicated processor for solving competitive assignment problems
[NASA-CASE-NPO-17781-1-CU] c 60 N92-17884
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N92-22033

COMPUTER PROGRAMS
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776
Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N92-16563

COMPUTER STORAGE DEVICES
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519
Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438

COMPUTER SYSTEMS DESIGN
Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542
Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805
Neural-network dedicated processor for solving competitive assignment problems
[NASA-CASE-NPO-17781-1-CU] c 60 N92-17884

COMPUTER TECHNIQUES
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245

Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512

COMPUTER VISION
Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868
Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864

COMPUTERIZED SIMULATION
Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741

COMPUTERS
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518

CONCAVITY
Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003

CONCENTRATORS
Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
Non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c 44 N79-11471
Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1-CU] c 35 N86-29174

CONCENTRIC CYLINDERS
Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783

CONCENTRIC SPHERES
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

CONCURRENT PROCESSING
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772

CONDENSATES
Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846

CONDENSERS (LIQUEFIERS)
Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

CONDENSING
Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300

CONDUCTING FLUIDS
Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686

CONDUCTING POLYMERS
Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121

CONDUCTION ELECTRONS
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

CONDUCTIVE HEAT TRANSFER
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N91-28582

CONDUCTIVITY
Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679
Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374

CONDUCTORS
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032
Electrorepulsive actuator
[NASA-CASE-NPO-17684-1-CU] c 33 N92-22042

CONES
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475

CONFIGURATION MANAGEMENT
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544
Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N91-23783

CONFINEMENT
Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265

CONICAL BODIES
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

CONICAL SCANNING
Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214

CONICAL SHELLS

- Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
- Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
- Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722

CONJUGATES

- Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210

CONNECTORS

- Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
- Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
- Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
- Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
- Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
- Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
- Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
- Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
- Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
- Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180
- Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
- Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610
- System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
- Connection space reduction mechanism
[NASA-CASE-GSC-13220-1] c 37 N91-21525
- Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 37 N91-24577
- Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MSC-21434-1] c 37 N92-10197
- Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 31 N92-16161

CONSCIOUSNESS

- EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729

CONSISTENCY

- Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

CONSOLES

- Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

CONSOLIDATION

- Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200

CONSTANTS

- Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417

CONSTRAINTS

- Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
- Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
- Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
- Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
- Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
- Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
- End effector with astronaut foot restraint
[NASA-CASE-MSC-21721-1] c 54 N92-16559

CONSTRUCTION MATERIALS

- Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454
- Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
- Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845

CONTACT POTENTIALS

- Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408

CONTAINERLESS MELTS

- Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
- Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
- Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
- Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
- Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
- Apparatus and method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
- Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489

CONTAINERS

- Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
- Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
- Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
- Sharps container
[NASA-CASE-MSC-21776-1] c 31 N92-17913

CONTAMINATION

- Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

CONTAMINANTS

- Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
- Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
- Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
- Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122

CONTAMINATION

- Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
- Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
- Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
- Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
- Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755
- High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241

CONTINUOUS RADIATION

- CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
- Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
- Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

CONTINUOUS WAVE LASERS

- High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
- Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416
- Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
- Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
- Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943

CONTINUOUS WAVE RADAR

- Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
- FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264

- Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568

CONTINUUM FLOW

- Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423

CONTOUR SENSORS

- Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

CONTOURS

- Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
- Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225
- Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
- Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
- Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
- Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
- Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
- Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
- Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

CONTROL

- Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
- Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
- Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
- Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
- Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
- Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427

CONTROL BOARDS

- Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090

CONTROL DATA (COMPUTERS)

- Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721

CONTROL EQUIPMENT

- Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
- Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
- Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
- Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
- Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
- Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
- Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
- Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741
- System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c 07 N72-11150
- Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
- Synchronous orbit battery cyclor
[NASA-CASE-GSC-11211-1] c 03 N72-25020
- Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
- Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
- Digital controller for a Baum folding machine --- providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c 37 N74-21056
- Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
- Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
- Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
- Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376

Variable cycle gas turbine engines
 [NASA-CASE-LEW-12916-1] c 37 N78-17384
Control for nuclear thermionic power source
 [NASA-CASE-NPO-13114-2] c 73 N78-28913
Illumination control apparatus for compensating solar light
 [NASA-CASE-KSC-11010-1] c 74 N79-12890
Dual acting slit control mechanism
 [NASA-CASE-LAR-11370-1] c 35 N80-28686
Pneumatic inflatable end effector
 [NASA-CASE-MFS-23696-1] c 54 N81-26718
Means for controlling aerodynamically induced twist
 [NASA-CASE-LAR-12175-1] c 05 N82-28279
Electronic system for high power load control --- solar arrays
 [NASA-CASE-NPO-15358-1] c 33 N83-27126
Pulsed thyristor trigger control circuit
 [NASA-CASE-MFS-25616-1] c 33 N84-16455
Magnetic spin reduction system for free spinning objects
 [NASA-CASE-MFS-25966-1] c 16 N86-26352
Apparatus and method of capturing an orbiting spacecraft
 [NASA-CASE-MSC-20979-1] c 37 N87-22985
Controlled sample orientation and rotation in an acoustic levitator
 [NASA-CASE-NPO-17086-1-CU] c 35 N89-14422
Active control of boundary layer transition and turbulence
 [NASA-CASE-LAR-13532-1] c 34 N91-14562
Rotatable non-circular forebody flow controller
 [NASA-CASE-LAR-14212-1-CU] c 05 N91-31140

CONTROL ROCKETS
Decomposition unit Patent
 [NASA-CASE-XMS-00583] c 28 N70-38504

CONTROL RODS
Null device for hand controller Patent
 [NASA-CASE-XLA-01808] c 15 N71-20740

CONTROL SIMULATION
Helmet weight simulator
 [NASA-CASE-LAR-12320-1] c 54 N81-27806

CONTROL STABILITY
Apparatus for sensor failure detection and correction in a gas turbine engine control system
 [NASA-CASE-LEW-12907-2] c 07 N81-19115
Apparatus for damping operator induced oscillations of a controlled system --- flight control
 [NASA-CASE-FRC-11041-1] c 33 N82-18493
Controlled sample orientation and rotation in an acoustic levitator
 [NASA-CASE-NPO-17086-1-CU] c 35 N89-14422

CONTROL SURFACES
Conical valve plug Patent
 [NASA-CASE-XLE-00715] c 15 N70-34859
Attitude control for spacecraft Patent
 [NASA-CASE-XNP-02982] c 31 N70-41855
Vortex-lift roll-control device
 [NASA-CASE-LAR-11868-2] c 08 N79-14108
Aerodynamic side-force alleviator means
 [NASA-CASE-LAR-12326-1] c 02 N81-14968
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
 [NASA-CASE-MSC-18134-1] c 37 N81-15363
Control surface actuator
 [NASA-CASE-LAR-12852-1] c 05 N89-11738
Rotatable non-circular forebody flow controller
 [NASA-CASE-LAR-14212-1-CU] c 05 N91-31140

CONTROL SYSTEMS DESIGN
Reactant pressure differential control for fuel cell gases
 [NASA-CASE-MSC-20127-2] c 37 N85-34403
Brushless DC motor control system responsive to control signals generated by a computer or the like
 [NASA-CASE-NPO-16420-1] c 33 N86-20681
ARC length control for plasma welding
 [NASA-CASE-MSC-20900-1] c 37 N88-30131
Spacecraft component heater control system
 [NASA-CASE-MFS-28327-1] c 18 N89-28556
Method and circuit for controlling the evolution time interval of a laser output pulse
 [NASA-CASE-LAR-13772-1] c 36 N89-28816
Robust high-performance control for robotic manipulators
 [NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Docking mechanism for spacecraft
 [NASA-CASE-MSC-21386-1] c 18 N90-20126
Balanced bridge feedback control system
 [NASA-CASE-NPO-17430-1-CU] c 33 N90-21951
Long period pseudo random number sequence generator
 [NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
System and method for a general purpose architecture for intelligent computer-aided training
 [NASA-CASE-MSC-21381-1] c 63 N91-13944
Electro-optical spin measurement system
 [NASA-CASE-LAR-13629-1] c 09 N91-14356

Combined air and water pollution control system
 [NASA-CASE-NST-00007-1] c 45 N91-14662
Permanent magnet flux-biased magnetic actuator with flux feedback
 [NASA-CASE-LAR-13785-1] c 70 N91-21824
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
 [NASA-CASE-MFS-28458-1] c 33 N91-26459
Apparatus for intercalating large quantities of fibrous structures
 [NASA-CASE-LEW-15077-2] c 24 N91-28289
Rotatable non-circular forebody flow controller
 [NASA-CASE-LAR-14212-1-CU] c 05 N91-31140
A universal computer control system for motors
 [NASA-CASE-NPO-17134-1-CU] c 33 N91-31528
Reconfigurable fuzzy cell
 [NASA-CASE-MSC-21613-1] c 61 N92-10331
High level language-based robotic control system
 [NASA-CASE-NPO-17918-2-CU] c 63 N92-17895
Passive control of pressure loads using porosity
 [NASA-CASE-LAR-14547-1] c 34 N92-17909

CONTROL THEORY

Robust high-performance control for robotic manipulators
 [NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Method and apparatus for configuration control of redundant robots
 [NASA-CASE-NPO-17801-1-CU] c 37 N91-21544

CONTROL UNITS (COMPUTERS)
Self-testing and repairing computer Patent
 [NASA-CASE-NPO-10567] c 08 N71-24633

CONTROL VALVES

Electromechanical actuator
 [NASA-CASE-XNP-05975] c 15 N69-23185
Full flow with shut off and selective drainage control valve Patent application
 [NASA-CASE-ERC-10208] c 15 N70-10867
Conical valve plug Patent
 [NASA-CASE-XLE-00715] c 15 N70-34859
Control valve and co-axial variable injector Patent
 [NASA-CASE-XNP-09702] c 15 N71-17654
Electrohydrodynamic control valve Patent
 [NASA-CASE-NPO-10416] c 12 N71-27332
Force-balanced, throttle valve Patent
 [NASA-CASE-NPO-10808] c 15 N71-27432
Dual stage check valve
 [NASA-CASE-MSC-13587-1] c 15 N73-30459
Airflow control system for supersonic inlets
 [NASA-CASE-LEW-11188-1] c 02 N74-20646
Ultrasonically bonded valve assembly
 [NASA-CASE-NPO-13360-1] c 37 N75-25185
Pressure modulating valve
 [NASA-CASE-MSC-14905-1] c 37 N77-28487
Fluid valve assembly
 [NASA-CASE-MSC-12731-1] c 37 N78-25426
Flow diverter valve and flow diversion method
 [NASA-CASE-HQN-00573-1] c 37 N79-33468
Quartz ball valve
 [NASA-CASE-NPO-14473-1] c 37 N80-23654
Pressure control valve --- inflating flexible bladders
 [NASA-CASE-ARC-11251-1] c 37 N81-17433
Electrical servo actuator bracket --- fuel control valves on jet engines
 [NASA-CASE-FRC-11044-1] c 37 N81-33483
Control means for a gas turbine engine
 [NASA-CASE-LEW-14586-1] c 07 N83-31603
Slow opening valve --- valve design for shuttle portable oxygen system
 [NASA-CASE-MSC-20112-1] c 37 N85-20338
Remotely controllable mixing system
 [NASA-CASE-MFS-28153-1] c 31 N86-32589
Dual motion valve with single motion input
 [NASA-CASE-MFS-28058-1] c 37 N87-21332
Monogroove cold plate
 [NASA-CASE-MSC-20946-1] c 34 N87-28867
Low-noise nozzle valve
 [NASA-CASE-MFS-28383-1] c 34 N91-14563

CONTROLLED ATMOSPHERES

Electrical connector Patent Application
 [NASA-CASE-MFS-14741] c 09 N70-20737
High voltage pulse generator Patent
 [NASA-CASE-MSC-12178-1] c 09 N71-13518
Exposure system for animals Patent
 [NASA-CASE-XAC-05333] c 11 N71-22875
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
 [NASA-CASE-ARC-11505-1] c 18 N84-22612

CONTROLLERS

Three axis controller Patent
 [NASA-CASE-XFR-00181] c 21 N70-33279
Two-axis controller Patent
 [NASA-CASE-XFR-04104] c 03 N70-42073
Controllers Patent
 [NASA-CASE-XMS-07487] c 15 N71-23255

Solid state controller three axes controller
 [NASA-CASE-MSC-12394-1] c 08 N74-10942
Wide power range microwave feedback controller
 [NASA-CASE-GSC-12146-1] c 33 N78-32340
Active nutation controller
 [NASA-CASE-GSC-12273-1] c 35 N80-21719
Phase-angle controller for Stirling engines
 [NASA-CASE-NPO-14388-1] c 37 N81-17432
Controller for computer control of brushless dc motors --- automobile engines
 [NASA-CASE-NPO-13970-1] c 33 N81-20352
Motor power factor controller with a reduced voltage starter
 [NASA-CASE-MFS-25586-1] c 33 N82-11360
Phase detector for three-phase power factor controller
 [NASA-CASE-MFS-25854-1] c 33 N84-27975
Three-phase power factor controller with induced EMF sensing
 [NASA-CASE-MFS-25852-1] c 33 N84-33661
Thumb-actuated two-axis controller
 [NASA-CASE-ARC-11372-1] c 08 N86-27288
Reconfigurable work station for a video display unit and keyboard
 [NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
Nanosequencer digital logic controller
 [NASA-CASE-NPO-16116-2] c 60 N88-29310
Fluidic momentum controller
 [NASA-CASE-MSC-20906-2] c 35 N89-15379
Robust high-performance control for robotic manipulators
 [NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Closed-loop autonomous docking system
 [NASA-CASE-MFS-28421-1] c 18 N90-26861
Generation of animation sequences of three dimensional models
 [NASA-CASE-MSC-21379-1-SB] c 61 N90-27340
Solder dross removal apparatus
 [NASA-CASE-MFS-28406-1] c 37 N91-13729
Method of injecting fluid propellants into a rocket combustion chamber
 [NASA-CASE-LEW-14846-2] c 20 N91-26200
A universal computer control system for motors
 [NASA-CASE-NPO-17134-1-CU] c 33 N91-31528
Synchronized computational architecture for generalized bilateral control of robot arms
 [NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
Telerobot control system
 [NASA-CASE-NPO-18116-1-CU] c 37 N91-32509
A generalized compliant motion primitive
 [NASA-CASE-NPO-18134-1-CU] c 37 N91-32510
Control system for ruling blazed, aberration corrected diffraction gratings
 [NASA-CASE-GSC-13240-1] c 35 N92-10186
Reconfigurable fuzzy cell
 [NASA-CASE-MSC-21613-1] c 61 N92-10331
Apparatus for precision focussing and positioning of a beam waist on a target
 [NASA-CASE-ARC-11916-1-SB] c 74 N92-16811
Closed-loop motor control using high-speed fiber optics
 [NASA-CASE-MSC-21806-1] c 74 N92-17863
Transformerless DC-DC voltage amplifier with optically isolated switching devices
 [NASA-CASE-NPO-17994-1-CU] c 33 N92-17907

CONVECTION

Method and apparatus for minimizing convection during crystal growth from solution
 [NASA-CASE-NPO-15811-1] c 76 N84-12968
High temperature insulation barrier composite
 [NASA-CASE-MFS-29241-1] c 24 N90-23480
Crystal growth in a microgravity environment
 [NASA-CASE-MFS-28473-1] c 76 N91-26968

CONVECTIVE FLOW

Geysering inhibitor for vertical cryogenic transfer pipe
 [NASA-CASE-KSC-10615] c 15 N73-12486
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
 [NASA-CASE-NPO-15021-1] c 36 N83-10417
Acoustic convective system
 [NASA-CASE-NPO-17278-1-CU] c 31 N90-21215

CONVECTIVE HEAT TRANSFER

Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
 [NASA-CASE-NPO-10617-1] c 35 N74-22095
Acoustic convective system
 [NASA-CASE-NPO-17278-1-CU] c 31 N90-21215

CONVERGENCE

Shock wave convergence apparatus
 [NASA-CASE-MFS-20890] c 14 N72-22439
Dual cathode system for electron beam instruments
 [NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
Convergent strand array liquid pumping system
 [NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809

CONVERGENT NOZZLES

Nozzle extraction process and handmeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246

CONVERGENT-DIVERGENT NOZZLES

Gimbale, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162

Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968

Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088

Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684

CONVERSION

Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547

CONVERTERS

Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

CONVEITY

Wide acceptance angle, high concentration ratio, optical collector
[NASA-CASE-MFS-28295-1] c 74 N91-13999

Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899

CONVEYORS

System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073

Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330

Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515

Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

CONVOLUTION INTEGRALS

Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169

COOLANTS

Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

Liquid cooled supersonic total temperature probe
[NASA-CASE-LAR-14435-1-CU] c 09 N91-26159

Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286

COOLERS

Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385

COOLING

Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486

Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502

Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577

Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410

Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568

Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151

Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578

Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824

High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415

Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968

COOLING SYSTEMS

Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467

Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598

Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807

Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654

Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052

Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053

Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152

Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948

Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066

Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430

Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191

Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353

Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386

Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106

Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467

Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237

Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256

Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721

Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288

Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336

Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579

Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519

Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114

Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085

Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903

Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577

High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179

Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286

Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867

Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286

COORDINATES

Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907

Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110

Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512

Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544

COPOLYMERIZATION

Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885

Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982

Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304

Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418

COPOLYMERS

Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905

Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500

Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438

Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187

Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350

Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351

Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380

Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841

Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526

Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950

Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953

Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121

COPPER

Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044

Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903

Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126

Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469

Metal (2) 4,4',4'',4''' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

COPPER ALLOYS

Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201

Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

Method of forming low cost, formable High T(sub c) superconducting wire
[NASA-CASE-LEW-14676-2] c 76 N90-17454

Low cost, formable, high T(sub c) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529

COPPER CHLORIDES

Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538

COPPER COMPOUNDS

Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

COPPER FLUORIDES

Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093

COPPER OXIDES

Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

CORDAGE

Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098

CORE STORAGE

Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

CORES

Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880

CORK (MATERIALS)

Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388

CORRECTION

Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543

CORRELATION

Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968

CORRELATION DETECTION

Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

CORRELATORS

Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438

CORROSION

Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

CORROSION PREVENTION

Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

CORROSION RESISTANCE

High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078

Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303

CORRUGATED PLATES

Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786

CORRUGATING

Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450

COSINE SERIES

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

COSMIC DUST

Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

COST ANALYSIS

Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460

COST EFFECTIVENESS

Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N91-13483
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N92-21999

COST REDUCTION

Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614

COUCHES

Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085

COULOMETERS

Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596

COUNTERBALANCES

Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629

COUNTERS

Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128

COUNTING CIRCUITS

Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
Digital cardiactachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

COUPLERS

Lamina transducer coupler and method of making
[NASA-CASE-LAR-14361-1] c 71 N91-16707

COUPLES

Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498

COUPLING

Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N88-23973
Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689

COUPLING CIRCUITS

Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422

COUPLINGS

Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679
Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782

- Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
- Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
- Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
- Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
- Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
- Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
- Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
- Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
- Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
- Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
- Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
- Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
- Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
- Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
- Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977
- Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
- Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798
- Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126
- Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610
- System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
- Connection space reduction mechanism
[NASA-CASE-GSC-13220-1] c 37 N91-21525
- Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498
- Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286
- Method for non-destructive estimation of waveguide directional coupler dimensions
[NASA-CASE-NPO-18454-1-CU] c 33 N92-17865
- COVARIANCE**
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
- COVERINGS**
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
- Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
- Hatch cover
[NASA-CASE-MSC-21356-1] c 18 N90-19278
- COWLINGS**
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
- CRACK OPENING DISPLACEMENT**
Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160
- CRACK PROPAGATION**
Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712
- Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374
- CRACKING (FRACTURING)**
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
- TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
- CRACKS**
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
- Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374
- CRANES**
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
- CRASH LANDING**
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
- CREEP RUPTURE STRENGTH**
Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026
- Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647
- CREEP TESTS**
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
- CRITICAL EXPERIMENTS**
Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- CRITICAL TEMPERATURE**
Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264
- CROSS CORRELATION**
Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395
- Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
- Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N91-32925
- CROSS FLOW**
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
- Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
- Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
- Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410
- CROSS POLARIZATION**
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
- CROSSED FIELDS**
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
- Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
- Crossed-field MHD plasma generator/accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
- CROSSLINKING**
Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
- Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
- Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
- In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
- Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
- Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
- Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
- The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
- In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
- Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
- Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
- Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
- Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
- Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
- Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
- Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
- Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
- Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
- Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
- Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
- Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657
- Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725
- Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198
- A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881
- A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955
- Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N91-13561
- Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562
- CROSSTALK**
Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N91-32926
- CRUCIBLES**
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
- CRUCIFORM WINGS**
Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154
- CRUDE OIL**
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
- Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
- CRUSTAL FRACTURES**
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
- CRYOGENIC COOLING**
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
- Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
- Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
- Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223
- Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
- Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
- Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203
- Three-stage sorption type cryogenic refrigeration system and method employing heat regeneration
[NASA-CASE-NPO-18366-1-CU] c 31 N92-17674
- CRYOGENIC EQUIPMENT**
Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
- Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935
- Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628
- Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
- Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
- Dual solid check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
- Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
- Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
- Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450

Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Low temperature latching solenoid
[NASA-CASE-MS-18106-1] c 33 N82-11357
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817
Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578

CRYOGENIC FLUID STORAGE
Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
Cryogenic storage system Patent
[NASA-CASE-XMS-04390] c 31 N70-41871
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651
Cryogenic insulation system Patent
[NASA-CASE-XLE-04222] c 23 N71-22881
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741

CRYOGENIC FLUIDS
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212
Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786

CRYOGENIC GYROSCOPES
Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323

CRYOGENIC MAGNETS
Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890

CRYOGENIC ROCKET PROPELLANTS
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042

CRYOGENIC STORAGE
Insulation system Patent
[NASA-CASE-XLE-02647] c 18 N71-23658
Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816

CRYOGENIC TEMPERATURE
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596

CRYOGENIC WIND TUNNELS
Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168

CRYOGENICS
Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
Multispectral scanner optical system
[NASA-CASE-MS-18255-1] c 74 N80-33210
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112
Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N91-28546

CRYOLITE
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332

CRYOSTATS
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287

CRYOTRAPPING
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402

CRYSTAL DEFECTS
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882

CRYSTAL FILTERS
Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891

CRYSTAL GROWTH
Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049

Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598
Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835
Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544
Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242
High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
Crystal growth apparatus
[NASA-CASE-MFS-28182-1] c 76 N90-24169
MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517
Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815
Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N91-23933
Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-1] c 76 N91-26966
Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968
Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499

- Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N92-22035
- CRYSTAL LATTICES**
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N92-22035
- CRYSTAL OPTICS**
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
- CRYSTAL OSCILLATORS**
Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
- CRYSTAL RECTIFIERS**
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
- CRYSTAL STRUCTURE**
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561
- CRYSTALLINITY**
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
Processing for maximizing the level of crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-14481-1] c 25 N92-16043
- CRYSTALLIZATION**
Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286
Novel polyimide compositions based on 4,4': Isophthaloyldiphthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561
- CRYSTALS**
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896
Reflection oscillators employing series resonant crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635
Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815
Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918
- Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968
- CUBIC LATTICES**
Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572
- CUES**
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
- CUFFS**
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- CULTURE TECHNIQUES**
Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284
Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Enhancement of in vitro guanylate propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793
Three-dimensional coculture process
[NASA-CASE-MSC-21560-1] c 51 N90-18852
Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N91-13860
Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703
A culture vessel with large perfusion area to volume ratio
[NASA-CASE-MSC-21662-1] c 51 N91-17531
Rotating bio-reactor cell culture apparatus
[NASA-CASE-MSC-21293-1] c 51 N91-21700
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
Horizontally rotated cell culture system with a coaxial tubular oxygenator
[NASA-CASE-MSC-21294-1] c 51 N91-30667
- CURING**
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
Metal (2) 4,4',4'',4''' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
- Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539
Nonintrusive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880
Process for bonding elastomers to metal
[NASA-CASE-LAR-13645-1] c 27 N91-28424
Flush mounting of thin film sensors
[NASA-CASE-LAR-14446-1] c 31 N91-28454
Tough, high performance, addition-type thermoplastic polymers
[NASA-CASE-LAR-14346-1] c 27 N92-22044
- CURRENT AMPLIFIERS**
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
Differential current source
[NASA-CASE-GSC-13280-1] c 33 N91-27479
- CURRENT DENSITY**
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
- CURRENT DISTRIBUTION**
Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864
- CURRENT REGULATORS**
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126

Differential current source
[NASA-CASE-GSC-13280-1] c 33 N91-27479

CURVATURE
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488
Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959

CURVE FITTING
Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578

CURVED PANELS
Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Variable contour securing system
[NASA-CASE-MS-16270-1] c 37 N78-27423

CUSHIONS
Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394

CUTTERS
Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Open ended tubing cutters
[NASA-CASE-MS-18538-1] c 37 N82-26672
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885

CUTTING
Ellipsograph for pantograph Patent
[NASA-CASE-XLA-03102] c 14 N71-21079
Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880
Power saw
[NASA-CASE-MS-21469-1] c 37 N91-31655
Nozzle fabrication technique
[NASA-CASE-MS-21299-2] c 37 N91-32508

CYANATES
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116

CYCLES
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167

CYCLIC ACCELERATORS
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458

CYCLIC COMPOUNDS
Carboranyl cyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469

Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692

CYCLIC HYDROCARBONS
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
Synthesis of 2,4,8,10-tetroxaspiro[5.5]undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187

CYCLIC LOADS
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601

CYCLOTRON RADIATION
Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226

CYCLOTRON RESONANCE
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163

CYCLOTRON RESONANCE DEVICES
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

CYLINDRICAL ANTENNAS
Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295

CYLINDRICAL BODIES
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959
Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590

CYLINDRICAL CHAMBERS
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

CYLINDRICAL SHELLS
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

CYSTS
Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751

CYTOLOGY
Spiral vane bioreactor
[NASA-CASE-MS-21361-1] c 51 N91-21701

CZOCHEVSKI METHOD
Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

D

DAMAGE
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MS-18736-1] c 24 N83-13172
High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043

DAMPERS (VALVES)
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490

DAMPING
Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997
Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513
Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228

Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608

DATA ACQUISITION
Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MS-21170-1] c 17 N91-14371

DATA COLLECTION PLATFORMS
Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007

DATA COMPRESSION
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128

DATA CONVERTERS
Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778
Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
Analog Signal to Discrete Time Interval Converter (ASDTIC)
[NASA-CASE-ERC-10048] c 09 N72-25251
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

DATA CORRELATION
Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

DATA LINKS
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121

Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176

Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818

Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913

Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772

A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528

DATA MANAGEMENT

Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760

DATA PROCESSING

Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421

Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917

Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255

Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739

Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084

Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283

Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342

Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MS-C-16253-1] c 32 N79-20297

High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

Real-time garbage collection for list processing
[NASA-CASE-MS-C-20964-1] c 60 N87-14863

Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MS-C-20187-1] c 33 N87-25531

Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384

Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713

DATA PROCESSING EQUIPMENT

Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494

Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472

Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057

Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110

Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172

Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177

Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187

Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176

Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240

High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MS-C-20258-1] c 60 N84-28492

Neighborhood comparison operator
[NASA-CASE-NPO-16464-1-CU] c 60 N86-24224

Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169

DATA RECORDERS

Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707

Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119

Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831

DATA RECORDING

System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042

Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707

Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710

Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866

On-film optical recording of camera lens settings
[NASA-CASE-MS-C-12363-1] c 14 N73-26431

Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283

Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946

DATA REDUCTION

Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928

Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506

Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288

Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435

Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707

Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171

Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154

Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172

Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

DATA RETRIEVAL

Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504

Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195

DATA SAMPLING

Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026

Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622

Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742

Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171

Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328

CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396

DATA SMOOTHING

Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964

Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417

DATA STORAGE

Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675

Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504

Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420

Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006

System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042

Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710

Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131

Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644

Data storage, image tube type
[NASA-CASE-MS-C-14053-1] c 60 N74-12888

Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337

Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519

Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852

DATA STRUCTURES

Real-time garbage collection for list processing
[NASA-CASE-MS-C-20964-1] c 60 N87-14863

DATA SYSTEMS

Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675

Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057

Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MS-C-14070-1] c 32 N74-32598

DATA TRANSFER (COMPUTERS)

Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255

DATA TRANSMISSION

Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333

Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961

Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506

Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288

Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435

Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763

Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026

Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405

Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741

Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154

Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121

Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176

System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519

Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328

Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308

Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011

System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221

Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MS-C-20258-1] c 60 N84-28492

Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863

VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061

Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

DAWSONITE

Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

DEACTIVATION

Magnetostriuctive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N92-15331

DEBRIS

Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

Hypervelocity impact shield
[NASA-CASE-MS-C-21420-1] c 18 N92-15114

DECAY RATES

Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269

DECELERATION

- Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
- Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812
- Hot air balloon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
- Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227

DECIMALS

- High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176

DECISION MAKING

- Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MS-14070-1] c 32 N74-32598
- Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
- Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-27439

DECODERS

- Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
- BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
- Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
- Compact bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
- Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MS-14557-1] c 32 N76-16249
- Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
- Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
- Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591
- Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
- VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N90-27040

DECODING

- Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
- Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
- Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MS-14070-1] c 32 N74-32598
- Differential pulse code modulation
[NASA-CASE-MS-12506-1] c 32 N77-12239
- Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946

DECOMMUTATORS

- Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
- Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

DECONTAMINATION

- Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
- Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
- Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913

DECOUPLING

- Two fault tolerant toggle-hook release
[NASA-CASE-MS-21671-1] c 37 N91-32498

DEEP SPACE NETWORK

- Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229

DEFECTS

- Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447

DEFLECTION

- Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
- Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
- Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707

DEFLECTORS

- Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788

- Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
- Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
- Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
- Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
- Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489

DEFOCUSING

- Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605

DEFORMATION

- Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
- Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
- Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
- Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
- Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732

DEGASSING

- Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MS-18936-1] c 35 N83-29652

DEGREES OF FREEDOM

- Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
- Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
- Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
- Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885

DEHUMIDIFICATION

- Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465

DEHYDRATED FOOD

- Modification of the physical properties of freeze-dried rice
[NASA-CASE-MS-13540-1] c 05 N72-33096

DEHYDRATION

- Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474

DEICERS

- Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
- Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833

DEIONIZATION

- Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180

DELAMINATING

- Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430
- A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121

DELAY CIRCUITS

- Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
- Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
- Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
- Sweep group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
- Pseudonoise code tracking loop
[NASA-CASE-MS-18035-1] c 32 N81-15179
- Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
- Vibration analyzer
[NASA-CASE-MS-21408-1] c 37 N91-14607

DELAY LINES

- A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900

DELTA MODULATION

- Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MS-13855-1] c 35 N74-17885

DELTA WINGS

- Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
- A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781

DEMAGNETIZATION

- Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

DEMODULATION

- Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
- Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
- Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
- Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
- Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684
- Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318
- Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712

DEMODULATORS

- Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
- Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
- Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
- Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
- Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
- Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MS-12165-1] c 07 N71-33696
- Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
- Unbalanced quadrature demodulator
[NASA-CASE-MS-14840-1] c 32 N77-24331
- Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
- Self-calibrating threshold detector
[NASA-CASE-MS-16370-1] c 35 N81-19427
- Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
- Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
- Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438

DENDRITIC CRYSTALS

- Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

DENSIFICATION

- Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MS-18737-1] c 24 N83-13171

DENSITOMETERS

- Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
- Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
- Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271

DENSITY (MASS/VOLUME)

- Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
- Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

DENSITY DISTRIBUTION

- Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
- Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958

DENSITY MEASUREMENT

- Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
- Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
- Determining particle density using known material Hugeniot curves
[NASA-CASE-LAR-11059-1] c 76 N75-12810
- Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681

- Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018
- Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N92-10609
- DENTISTRY**
- Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
- Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862
- DEOXIDIZING**
- Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
- DEOXYGENATION**
- Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138
- DEPLOYMENT**
- Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477
- Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
- Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
- High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
- Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
- Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
- Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
- Payload deployment method and system
[NASA-CASE-MS-C-21330-1] c 16 N88-24660
- Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139
- Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MS-C-21562-1] c 16 N92-16007
- DEPOSITION**
- Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
- Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
- Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
- Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
- Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
- Liquid crystal light valve structures
[NASA-CASE-MS-C-20036-1] c 76 N85-33826
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N91-32926
- DEPOSITS**
- Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
- DEPTH**
- Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
- Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809
- DEPTH MEASUREMENT**
- Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018
- Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963
- Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
- Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N90-10415
- Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N92-21723
- DESCENT**
- Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844
- DESIGN ANALYSIS**
- Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
- Snap-in compressible biomedical electrode
[NASA-CASE-MS-C-14623-1] c 52 N77-28717
- DESORPTION**
- Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203
- DESTRUCTIVE TESTS**
- Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
- Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430
- DESULFURIZING**
- Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
- Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
- Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
- Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
- Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
- Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
- Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
- Regenerative Cu/La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073
- DETECTION**
- Heated element fluid flow sensor Patent
[NASA-CASE-MS-C-12084-1] c 12 N71-17569
- Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
- Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240
- Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
- Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
- Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
- Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
- Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
- Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
- Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA 1.71:NPO-15494-2] c 35 N85-34373
- Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
- Spillage detector for liquid chromatography systems
[NASA-CASE-MS-C-20206-1] c 25 N86-27431
- Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118
- Device for quickly sensing the amount of O₂ in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025
- Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239
- Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661
- Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
- Dual diaphragm tank with telltale drain
[NASA-CASE-MS-C-21703-1] c 31 N91-25305
- DETECTORS**
- Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
- Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
- Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
- Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
- Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
- Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
- Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
- Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
- Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
- Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
- Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
- Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
- Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
- Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
- DETERGENTS**
- Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MS-C-13530-2] c 23 N75-14834
- Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MS-C-20857-1] c 37 N87-17035
- DETONATION**
- Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
- Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863
- Improving the performance of blasting caps
[NASA-CASE-LAR-13832-1] c 28 N91-28444
- Permanent wire splicing by an explosive joining process
[NASA-CASE-LAR-13825-1] c 31 N92-16162
- DETONATION WAVES**
- Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
- DETONATORS**
- Improving the performance of blasting caps
[NASA-CASE-LAR-13832-1] c 28 N91-28444
- DEUTERIUM**
- Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
- Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860
- DEW POINT**
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA 1.71:NPO-15494-2] c 35 N85-34373
- Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496
- DIAGNOSIS**
- Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
- Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
- Portable dynamic fundus instrument
[NASA-CASE-MS-C-21675-1] c 52 N91-13865
- Lamina transducer coupler and method of making
[NASA-CASE-LAR-14361-1] c 71 N91-16707
- Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914
- DIAGRAMS**
- Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
- DIALYSIS**
- Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
- DIAMAGNETISM**
- Electromagnetic Meissner effect launcher
[NASA-CASE-MFS-28323-1] c 14 N92-15081
- DIAMETERS**
- Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959
- DIAMINES**
- Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
- Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
- Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
- Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980

Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078
Amine terminated bisaspartamide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N87-24564
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566
N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185
Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N91-28425
Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230
A process for preparing 1,3-diamino-5-pentafluorosulfanylbenzene and polymers therefrom
[NASA-CASE-LAR-14773-1-CU] c 27 N92-10105
Diphenylmethane-containing dianhydride and polyimides prepared therefrom
[NASA-CASE-LAR-14487-1] c 27 N92-11200
A process for preparing an assembly of an article and a polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14538-1] c 27 N92-11201
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-6] c 23 N92-17882

DIAMONDS
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

DIAPHRAGMS (MECHANICS)
Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
Flexible diaphragm-extreme temperature usage
[NASA-CASE-MSC-20797-2] c 35 N91-21494
Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305

DIATOMIC GASES
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

DICHROISM

Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416

DICKE RADIOMETERS

Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359

DIDYMIUM

Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608

DIELECTRIC PROPERTIES

Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596

DIELECTRICS

Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066

DIELS-ALDER REACTIONS

Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418

DIENES

Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

DIES

Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276

Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334

DIESEL ENGINES
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

DIESEL FUELS
Regenerative Cu/La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073

DIETS
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

DIFFERENCE EQUATIONS
Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976

DIFFERENCES
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

DIFFERENTIAL AMPLIFIERS
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438

DIFFERENTIAL INTERFEROMETRY
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587

DIFFERENTIAL PRESSURE
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

DIFFERENTIAL PULSE CODE MODULATION
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128

DIFFERENTIATION (BIOLOGY)
Three-dimensional coculture process
[NASA-CASE-MSC-21560-1] c 51 N90-18852

DIFFERENTIATORS
Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308

DIFFRACTION
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868

DIFFRACTION PATTERNS
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388
Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-32922

DIFRACTOMETERS
Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491

DIFFUSE RADIATION
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879

DIFFUSERS
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749

DIFFUSION

A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MS-C-21384-1] c 34 N92-16243

DIFFUSION LENGTH

Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

DIFFUSION PUMPS

Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771

DIFFUSION WELDING

Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487
Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492
Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MS-C-14435-1] c 37 N76-18455
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

DIFFUSIVITY

Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044

DIGITAL COMMAND SYSTEMS

Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034

DIGITAL COMPUTERS

Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MS-C-12531-1] c 35 N75-30504
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

DIGITAL DATA

Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420

Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Treillis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523
Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976

DIGITAL ELECTRONICS

Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459

DIGITAL FILTERS

Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712

DIGITAL INTEGRATORS

Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373

DIGITAL RADAR SYSTEMS

Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

DIGITAL SPACECRAFT TELEVISION

Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807

DIGITAL SYSTEMS

Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Noninterruptible digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
Digital controller for a Baum folding machine --- providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c 37 N74-21056
Digital transmitter for data bus communications system
[NASA-CASE-MS-C-14558-1] c 32 N75-21486

Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Open loop digital frequency multiplier
[NASA-CASE-MS-C-12709-1] c 33 N77-24375
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MS-C-12743-1] c 32 N79-10263
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MS-C-16461-1] c 33 N79-11313
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
Random digital encryption secure communication system
[NASA-CASE-MS-C-16462-1] c 32 N82-31583
Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Reconfigurable fuzzy cell
[NASA-CASE-MS-C-21613-1] c 61 N92-10331

DIGITAL TECHNIQUES

Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
Digital cardiactachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
Digital communication system
[NASA-CASE-MS-C-13912-1] c 32 N74-30524
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
Digital numerically controlled oscillator
[NASA-CASE-MS-C-16747-1] c 33 N81-17349
Random digital encryption secure communication system
[NASA-CASE-MS-C-16462-1] c 32 N82-31583
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712

DIGITAL TO ANALOG CONVERTERS

Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
Buffered analog converter
[NASA-CASE-KSC-10397] c 08 N72-25206
Digital to analog conversion apparatus
[NASA-CASE-MS-C-12458-1] c 08 N73-32081
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417

Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

DIGITAL TRANSDUCERS

Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081

Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395

DIISOCYANATES

Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099

Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100

Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103

DILUTION

Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120

DIMENSIONAL MEASUREMENT

Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374

DIMENSIONAL STABILITY

A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121

DIMENSIONS

Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

DIODES

Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796

Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354

Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701

Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236

Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457

Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214

Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150

High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814

Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339

Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341

Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029

Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264

Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

DIPHENYL COMPOUNDS

Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841

Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726

Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469

DIPOLE ANTENNAS

Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235

Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336

DIPPING

Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729

DIRECT CURRENT

Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330

Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987

Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255

A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723

Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772

Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418

Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693

Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188

Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239

Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317

Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573

Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904

Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950

Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092

A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886

Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035

Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203

A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253

Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476

Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988

Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851

Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864

Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239

Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386

Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338

Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133

Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352

Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427

Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939

Transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N92-17907

DIRECT LIFT CONTROLS

Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106

DIRECT POWER GENERATORS

Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134

Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610

Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239

Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893

Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864

Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410

DIRECTIONAL ANTENNAS

Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907

Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493

Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854

Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696

Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295

Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

DIRECTIONAL CONTROL

Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162

Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125

Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106

Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

DIRECTIONAL SOLIDIFICATION (CRYSTALS)

Preparation of monotelect alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419

High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462

DIRECTIONAL STABILITY

Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160

System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275

DIRECTIVITY

Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

DISABILITIES

Compliant walker
[NASA-CASE-GSC-13348-2] c 52 N91-29714

DISCONNECT DEVICES

Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667

Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258

Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259

Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789

Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489

Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663

Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903

Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455

Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445

Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488

Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450

Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463

Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402

Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609

Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334

Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801

Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582

Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969

Quick action clamp
[NASA-CASE-LEW-14887-1] c 37 N91-27561

Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498

DISCONTINUITY

Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360

DISCRIMINATORS

Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

DISILICIDES

Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025
Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561

DISKS

Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609

DISPENSERS

Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466

DISPERSING

Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

DISPERSIONS

Preparation of alkali metal dispersions
[NASA-CASE-NXP-08876] c 17 N73-28573

DISPLACEMENT

Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Polyimidoazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N91-23237
Pressure vessel flex joint
[NASA-CASE-MS-C-21748-1] c 37 N91-25415
Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066
Pressure vessel flex joint
[NASA-CASE-MS-C-21748-1] c 37 N92-21727

DISPLACEMENT MEASUREMENT

Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361

DISPLAY DEVICES

Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882

Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
Scientific experiment flexible mount
[NASA-CASE-MS-C-12372-1] c 31 N72-25842
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Transparent switchboard
[NASA-CASE-MS-C-13746-1] c 10 N73-32143
Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA 1.71:NPO-15494-2] c 35 N85-34373
Aircraft liftemeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466
Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1CU] c 04 N91-31120
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1CU] c 63 N91-31885
Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950

Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126

DISPOSAL

Sharps container
[NASA-CASE-MS-C-21776-1] c 31 N92-17913

DISSIPATION

Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

DISSOCIATION

Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607

DISSOLVING

Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458

DISTANCE

Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N91-13888
Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809

DISTANCE MEASURING EQUIPMENT

Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
Method and apparatus for measuring distance
[NASA-CASE-MS-C-20912-1] c 32 N88-26568
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N90-10415
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N92-21723

DISTILLATION EQUIPMENT

Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129

DISTRIBUTED AMPLIFIERS

Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415

DISTRIBUTED FEEDBACK LASERS

Multiperiod-grating surface-emitting lasers
[NASA-CASE-NPO-17763-1-CU] c 36 N92-17862

DISTRIBUTED PROCESSING

Distributed multiprot memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713
Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MS-C-21348-1] c 62 N91-14769
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693

DISTRIBUTION (PROPERTY)

Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

DISTRIBUTORS

High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332

DIVERGENT NOZZLES

Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490

DIVERTERS

Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468

DIVIDERS

A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836

DOCUMENT STORAGE

File card marker Patent
[NASA-CASE-XLA-02705] c 08 N71-15908

DOMES (STRUCTURAL FORMS)

Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492

DOORS
Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690

DOPES
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

DOPPLER EFFECT
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321
Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N91-25316
Edge technique for measurement of laser frequency shifts including the Doppler shift
[NASA-CASE-GSC-13343-1] c 36 N91-28557

DOPPLER RADAR
Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280

DOSIMETERS
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

DOWNLINKING
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061

DRAG CHUTES
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139

DRAG MEASUREMENT
Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057

DRAG REDUCTION
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194

Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562
Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N91-27156

DRAINAGE
Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305

DRIFT (INSTRUMENTATION)
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175

DRILL BITS
Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186

DRILLING
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N90-10415
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N92-21723

DRILLS
Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321

DRIVES
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126

DROP TOWERS
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

DROPS (LIQUIDS)
Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242
Crystal growth apparatus
[NASA-CASE-MFS-28182-1] c 76 N90-24169
Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250

DRUGS
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

DRY HEAT
Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999

DRYING
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180

DRYING APPARATUS
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080

DUCTED FANS
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095

DUCTILITY

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540

DUCTS
Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243

DURABILITY
Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N91-13500
Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N92-21725

DUST COLLECTORS
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

DYE LASERS
Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655

DYES
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N91-16999
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N92-21588

DYNAMIC CHARACTERISTICS
Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082

DYNAMIC CONTROL
Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N92-17860

DYNAMIC LOADS
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30180
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596

DYNAMIC MODELS
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846

DYNAMIC MODULUS OF ELASTICITY
Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993

DYNAMIC PRESSURE
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155

DYNAMIC RESPONSE

- Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
- Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
- Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
- Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095

DYNAMIC STRUCTURAL ANALYSIS

- Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440

DYNAMIC TESTS

- Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
- Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
- Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
- Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184

DYNAMICAL SYSTEMS

- Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MS-C-18172-3] c 31 N88-29052
- Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

DYNAMOMETERS

- Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
- Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429

E

EAR

- Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185

EARPHONES

- Multi-adjustable headband --- for headsets
[NASA-CASE-KSC-11322-1] c 54 N89-29953

EARTH ATMOSPHERE

- Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991

EARTH CRUST

- Seismic vibration source
[NASA-CASE-NPO-11412-1] c 46 N79-22679

EARTH IONOSPHERE

- Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408

EARTH ORBITS

- High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
- A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MS-C-12391] c 30 N73-12884
- A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
- Assured crew return vehicle
[NASA-CASE-MS-C-21536-1] c 18 N91-13483
- Orbital debris sweeper and method
[NASA-CASE-MS-C-21534-1] c 18 N91-21222
- Assured crew return vehicle
[NASA-CASE-MS-C-21536-1] c 18 N92-21999

ECCENTRICITY

- Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N91-14001

ECCENTRICS

- Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370

ECHELLE GRATINGS

- Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

ECHO SOUNDING

- Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407

ECHOES

- Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
- Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

EDDY CURRENTS

- Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698

EDGES

- Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

EDITING

- Generation of animation sequences of three dimensional models
[NASA-CASE-MS-C-21379-1-SB] c 61 N90-27340

EDUCATION

- Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256
- System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MS-C-21381-1] c 63 N91-13944

EFFICIENCY

- Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
- High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863

EFFLUENTS

- Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
- Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MS-C-16841-1] c 34 N79-24285

EGRESS

- Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
- Emergency egress fixed rocket package
[NASA-CASE-MS-C-21332-1] c 03 N91-15142

EJECTION

- Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502

EJECTION SEATS

- Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718

EJECTORS

- Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
- Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718
- Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
- Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

ELASTIC BODIES

- Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
- Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
- Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865

ELASTIC DEFORMATION

- Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781
- Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971

ELASTIC MEDIA

- Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156

ELASTIC PROPERTIES

- Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
- Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
- Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
- Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615

ELASTIC SHEETS

- Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803

ELASTOMERS

- Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MS-C-12116-1] c 15 N71-17648
- Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489

Elastomeric silazane polymers and process for preparing the same Patent

- [NASA-CASE-XMF-04133] c 06 N71-20717
- Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
- Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864
- Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
- Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
- Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MS-C-14331-3] c 27 N78-32262
- Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
- Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
- Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
- Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
- The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
- Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
- Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
- Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MS-C-18382-1] c 27 N82-16238
- Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
- Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
- Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
- Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
- Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
- Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
- Perfluoro (imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
- Electro-explosive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
- Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270
- Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N91-13734
- Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542
- Process for bonding elastomers to metal
[NASA-CASE-LAR-13845-1] c 27 N91-28424

ELBOW (ANATOMY)

- Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619

ELECTRIC ARCS

- Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
- Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
- Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
- Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
- Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
- Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
- High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
- Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
- Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
- Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980

ELECTRIC AUTOMOBILES

Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

ELECTRIC BATTERIES

Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Synchronous orbit battery cyclor
[NASA-CASE-GSC-11211-1] c 03 N72-25020
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537
Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538
Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478

ELECTRIC BRIDGES

Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

ELECTRIC CELLS

Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044

ELECTRIC CHARGE

Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
Electrorepulsive actuator
[NASA-CASE-NPO-17684-1-CU] c 33 N92-22042

ELECTRIC CHOPPERS

Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295

ELECTRIC COILS

Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769

ELECTRIC CONDUCTORS

Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
Electrical switching device Patent
[NASA-CASE-MFS-10037] c 09 N71-19610
Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397

ELECTRIC CONNECTORS

Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977
Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
Four-terminal electrical testing device --- initiator bridewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270
Flush mounting of thin film sensors
[NASA-CASE-LAR-14446-1] c 31 N91-28454

ELECTRIC CONTACTS

Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492

Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231
Substantially oxygen-free contact tube
[NASA-CASE-LAR-14169-1] c 37 N92-17677

ELECTRIC CONTROL

Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300

ELECTRIC CURRENT

Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249
Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833

Differential current source
[NASA-CASE-GSC-13280-1] c 33 N91-27479

ELECTRIC DISCHARGES

Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249

High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518

Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960

Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859

Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286

Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941

ELECTRIC ENERGY STORAGE

Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431

Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581

Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606

Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474

Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
[NASA-CASE-LEW-14973-1] c 44 N92-10222

ELECTRIC EQUIPMENT

Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559

Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446

High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569

Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449

Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901

Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085

Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001

Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053

Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139

Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637

Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214

Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469

Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929

Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976

Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573

Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140

ELECTRIC EQUIPMENT TESTS

Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926

Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519

High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842

ELECTRIC FIELD STRENGTH

Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014

Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086

Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790

Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843

ELECTRIC FIELDS

Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410

Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411

Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699

Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678

Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175

Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318

Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862

Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779

Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269

Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940

Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661

Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911

ELECTRIC FILTERS

Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752

Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806

RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171

Multi-loop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245

Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256

Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171

ELECTRIC FURNACES

High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

ELECTRIC FUSES

Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526

Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796

Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393

ELECTRIC GENERATORS

Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330

Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446

Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029

Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049

Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188

High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248

Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315

Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807

RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863

Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139

Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414

Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862

Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203

Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252

A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253

Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109

Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837

Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524

Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387

Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828

Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280

Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421

Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319

Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424

Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769

Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

ELECTRIC IGNITION

Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

ELECTRIC MOTOR VEHICLES

Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776

ELECTRIC MOTORS

Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987

Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712

Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677

Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030

Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585

Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724

Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772

Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695

Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861

Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895

Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999

Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092

Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418

A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886

Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244

Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476

Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107

Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386

Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314

Controller for computer control of brushless dc motors --- automobile engines
 [NASA-CASE-NPO-13970-1] c 33 N81-20352
 Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
 [NASA-CASE-GSC-12518-1] c 33 N82-24421
 Four quadrant control circuit for a brushless three-phase dc motor
 [NASA-CASE-MFS-28080-1] c 33 N87-21233
 Reciprocating linear motor
 [NASA-CASE-GSC-12773-2] c 33 N87-23904
 Mechanized fluid connector and assembly tool system with ball detents
 [NASA-CASE-MSC-21434-1] c 37 N92-10197

ELECTRIC NETWORKS
 Condition and condition duration indicator Patent
 [NASA-CASE-XMF-01097] c 10 N71-16058
 Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
 [NASA-CASE-XGS-03427] c 10 N71-23029
 Increasing efficiency of switching type regulator circuits Patent
 [NASA-CASE-XMS-09352] c 09 N71-23316
 Broadband frequency discriminator Patent
 [NASA-CASE-NPO-10096] c 07 N71-24583
 Test apparatus for locating shorts during assembly of electrical buses
 [NASA-CASE-ARC-11116-1] c 33 N82-24420

ELECTRIC POTENTIAL
 Method and apparatus for battery charge control Patent
 [NASA-CASE-XGS-05432] c 03 N71-19438
 Positive dc to positive dc converter Patent
 [NASA-CASE-XMF-14301] c 09 N71-23188
 Variable width pulse integrator Patent
 [NASA-CASE-XLA-03356] c 10 N71-23315
 Voltage dropout sensor Patent
 [NASA-CASE-KSC-10020] c 10 N71-27338
 Automated equipotential plotter
 [NASA-CASE-NPO-11134] c 09 N72-21246
 Pulsed excitation voltage circuit for transducers
 [NASA-CASE-FRC-10036] c 09 N72-22200
 Load-insensitive electrical device
 [NASA-CASE-XER-11046] c 09 N72-22203
 Continuously variable voltage controlled phase shifter
 [NASA-CASE-NPO-11129] c 09 N72-33204
 Photoelectron spectrometer with means for stabilizing sample surface potential
 [NASA-CASE-NPO-13772-1] c 35 N78-10429
 Microcomputerized electric field meter diagnostic and calibration system
 [NASA-CASE-KSC-11035-1] c 35 N78-28411
 Driver for solar cell I-V characteristic plots
 [NASA-CASE-NPO-14096-1] c 44 N80-18551
 Microwave integrated circuit for Josephson voltage standards
 [NASA-CASE-MFS-23845-1] c 33 N81-17348
 Synchronized voltage contrast display analysis system
 [NASA-CASE-NPO-14567-1] c 33 N83-18996
 Method for detecting coliform organisms
 [NASA-CASE-ARC-11322-1] c 51 N83-28849
 Phase detector for three-phase power factor controller
 [NASA-CASE-MFS-25854-1] c 33 N84-27975
 Simplified dc to dc converter
 [NASA-CASE-LEW-13495-1] c 33 N84-33663
 High voltage power supply
 [NASA-CASE-GSC-12818-1] c 33 N85-29147
 Modulated voltage metastable ionization detector
 [NASA-CASE-ARC-11503-1] c 35 N85-34374
 Angular measurement system
 [NASA-CASE-MFS-25825-1] c 31 N86-29055
 FET charge sensor and voltage probe
 [NASA-CASE-NPO-16045-1] c 76 N87-13313
 Electronic precipitator control
 [NASA-CASE-LAR-13273-2] c 33 N90-20320
 Alternating gradient photodetector
 [NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
 Induction-type metal detector with increased scanning area capability
 [NASA-CASE-KSC-11386-1] c 35 N90-22023
 Device for quickly sensing the amount of O₂ in a combustion product gas
 [NASA-CASE-LAR-13816-1] c 35 N90-22025
 Nonintrusive method and apparatus for monitoring the cure of polymeric materials
 [NASA-CASE-LAR-13465-1] c 27 N90-23544
 High speed magneto-resistive random access memory
 [NASA-CASE-NPO-17954-1-CU] c 60 N90-26519
 Dual physiological rate measurement instrument
 [NASA-CASE-MSC-20078-3] c 52 N91-14709
 Single element magnetic suspension actuator
 [NASA-CASE-LAR-13981-1] c 37 N91-21539
 Differential current source
 [NASA-CASE-GSC-13280-1] c 33 N91-27479
 Driven shielding capacitive proximity sensor
 [NASA-CASE-GSC-13377-1] c 63 N91-28785

Method and apparatus for frequency spectrum analysis
 [NASA-CASE-NPO-17759-1-CU] c 32 N92-10125

ELECTRIC POWER
 Switching circuit employing regeneratively connected complementary transistors Patent
 [NASA-CASE-XNP-02654] c 10 N70-42032
 High power-high voltage waterload Patent
 [NASA-CASE-NPO-05381] c 09 N71-20842
 Power factor control system for AC induction motors
 [NASA-CASE-MFS-23280-1] c 33 N78-10376
 Shunt regulation electric power system
 [NASA-CASE-GSC-10135] c 33 N78-17296
 Electrical power generating system --- for windpowered generation
 [NASA-CASE-MFS-24368-3] c 33 N81-22280

ELECTRIC POWER PLANTS
 Ocean thermal plant
 [NASA-CASE-KSC-11034-1] c 44 N78-32542
 Wind and solar powered turbine
 [NASA-CASE-NPO-15496-1] c 44 N84-23018

ELECTRIC POWER SUPPLIES
 Current dependent filter inductance
 [NASA-CASE-ERC-10139] c 09 N72-17154
 Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
 [NASA-CASE-NPO-11388] c 03 N72-23048
 Parasitic suppressing circuit
 [NASA-CASE-ERC-10403-1] c 10 N73-26228
 Powerplexer
 [NASA-CASE-MSC-12396-1] c 03 N73-31988
 Inherent redundancy electric heater
 [NASA-CASE-MFS-21462-1] c 33 N74-14935
 Temperature compensated current source
 [NASA-CASE-MSC-11235] c 33 N78-17294
 High voltage power supply
 [NASA-CASE-GSC-12818-1] c 33 N85-29147
 Arc lamp power supply using a voltage multiplier
 [NASA-CASE-LAR-13202-1] c 33 N88-23942
 Magnetically switched power supply system for lasers
 [NASA-CASE-NPO-16402-2] c 33 N88-24862

ELECTRIC POWER TRANSMISSION
 Magnetic power switch Patent
 [NASA-CASE-NPO-10242] c 09 N71-24803
 Failure sensing and protection circuit for converter networks Patent
 [NASA-CASE-GSC-10114-1] c 10 N71-27366
 Powerplexer
 [NASA-CASE-MSC-12396-1] c 03 N73-31988
 Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
 [NASA-CASE-MFS-21470-1] c 44 N74-19870
 Electrical rotary joint apparatus for large space structures
 [NASA-CASE-MFS-23981-1] c 07 N83-20944

ELECTRIC PROPULSION
 Electric propulsion engine test chamber Patent
 [NASA-CASE-XLE-00252] c 11 N70-34844

ELECTRIC PULSES
 Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
 [NASA-CASE-XMF-00906] c 09 N70-41655
 Variable pulse width multiplier Patent
 [NASA-CASE-XLA-02850] c 09 N71-20447
 Phonocardiograph transducer Patent
 [NASA-CASE-XMS-05365] c 14 N71-22993
 Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
 [NASA-CASE-XGS-03427] c 10 N71-23029
 Variable width pulse integrator Patent
 [NASA-CASE-XLA-03356] c 10 N71-23315
 Pulse rise time and amplitude detector Patent
 [NASA-CASE-XMF-08804] c 09 N71-24717
 Counter Patent
 [NASA-CASE-XNP-06234] c 10 N71-27137
 Precision rectifier with FET switching means Patent
 [NASA-CASE-ARC-10101-1] c 09 N71-33109
 Phase modulating with odd and even finite power series of a modulating signal
 [NASA-CASE-LAR-11607-1] c 32 N77-14292
 Telephone multiline signaling using common signal pair
 [NASA-CASE-KSC-11023-1] c 32 N79-23310
 Active lamp pulse driver circuit --- optical pumping of laser media
 [NASA-CASE-GSC-12566-1] c 33 N83-34189

ELECTRIC RELAYS
 Protective circuit of the spark gap type
 [NASA-CASE-XAC-08981] c 09 N69-39897
 Time-division multiplexer Patent
 [NASA-CASE-XNP-00431] c 09 N70-38998
 Out of tolerance warning alarm system for plurality of monitored circuits Patent
 [NASA-CASE-XMS-10984-1] c 10 N71-19417

Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
 [NASA-CASE-GSC-10373-1] c 07 N71-19773
 Circuit breaker utilizing magnetic latching relays Patent
 [NASA-CASE-MSC-11277] c 09 N71-29008
 Multi-cell battery protection system
 [NASA-CASE-LEW-12039-1] c 44 N78-14625

ELECTRIC ROCKET ENGINES
 Electron bombardment ion engine Patent
 [NASA-CASE-XNP-04124] c 28 N71-21822

ELECTRIC SPARKS
 Method and device for detection of a substance --- determining carbon fiber release in fire situations
 [NASA-CASE-NPO-14940-1] c 33 N83-31954

ELECTRIC STIMULI
 Tread drum for animals --- having an electrical shock station
 [NASA-CASE-ARC-10917-1] c 51 N78-27733

ELECTRIC SWITCHES
 Thermionic diode switch Patent
 [NASA-CASE-NPO-10404] c 03 N71-12255
 Deflective rod switch with elastic support and sealing means Patent
 [NASA-CASE-XNP-09808] c 09 N71-12518
 Electrical switching device Patent
 [NASA-CASE-NPO-10037] c 09 N71-19610
 Plural position switch status and operativeness checker Patent
 [NASA-CASE-XLA-08799] c 10 N71-27272
 Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
 [NASA-CASE-XNP-00745] c 10 N71-28960
 Cyclic switch Patent
 [NASA-CASE-LEW-10155-1] c 09 N71-29035
 Telemetry actuated switch
 [NASA-CASE-ARC-10105] c 09 N72-17153
 Differential pressure control
 [NASA-CASE-MFS-14216] c 14 N73-13418
 Fused switch
 [NASA-CASE-XMS-01244-1] c 33 N79-33393
 Pulse switching for high energy lasers
 [NASA-CASE-NPO-14556-1] c 33 N82-24418
 Automatic thermal switch --- spacecraft applications
 [NASA-CASE-GSC-12553-1] c 34 N83-28356
 Four quadrant control circuit for a brushless three-phase dc motor
 [NASA-CASE-MFS-28080-1] c 33 N87-21233

ELECTRIC TERMINALS
 Electrical connector pin with wiping action
 [NASA-CASE-XMF-04238] c 09 N69-39734
 Electrical connector for flat cables Patent
 [NASA-CASE-XMF-00324] c 09 N70-34596
 Tool attachment for spreading loose elements away from work Patent
 [NASA-CASE-XMF-02107] c 15 N71-10809
 Electrical spot terminal assembly Patent
 [NASA-CASE-NPO-10034] c 15 N71-17685
 Resistance soldering apparatus
 [NASA-CASE-GSC-10913] c 15 N72-22491
 Radio frequency filter device
 [NASA-CASE-XLA-02609] c 09 N72-25256
 Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
 [NASA-CASE-MFS-22133-1] c 33 N74-26977

ELECTRIC WELDING
 Electric welding torch Patent
 [NASA-CASE-XMF-02330] c 15 N71-23798
 Butt welder for fine gauge tungsten/rhenium thermocouple wire
 [NASA-CASE-LAR-10103-1] c 15 N73-14468
 Welding blades to rotors
 [NASA-CASE-LEW-10533-1] c 15 N73-28515

ELECTRIC WIRE
 Wire grid forming apparatus Patent
 [NASA-CASE-XLE-00023] c 15 N70-33330
 Weld control system using thermocouple wire Patent
 [NASA-CASE-MFS-06074] c 15 N71-20393
 Ablation sensor Patent
 [NASA-CASE-XLA-01794] c 33 N71-21586
 Resistance soldering apparatus
 [NASA-CASE-GSC-10913] c 15 N72-22491
 Lead attachment to high temperature devices
 [NASA-CASE-ERC-10224] c 09 N72-25261
 Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
 [NASA-CASE-LAR-10168-1] c 33 N74-22865
 Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
 [NASA-CASE-MFS-22133-1] c 33 N74-26977
 High current electrical lead --- for thermionic converters
 [NASA-CASE-LEW-10950-1] c 33 N74-27683

- Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227
Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
- ELECTRICAL ENGINEERING**
Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
- ELECTRICAL FAULTS**
Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MS-C-12033-1] c 09 N71-13531
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- ELECTRICAL IMPEDANCE**
High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
Signal conditioning circuit apparatus --- with constant input impedance
[NASA-CASE-ARC-10348-1] c 33 N75-19518
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
- ELECTRICAL INSULATION**
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331
Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270
- ELECTRICAL MEASUREMENT**
Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037
Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
- Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MS-C-21166-1] c 35 N87-25555
Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-10125
Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182
- ELECTRICAL PROPERTIES**
Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
Radiometric temperature reference Patent
[NASA-CASE-MS-C-13276-1] c 14 N71-27058
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121
- ELECTRICAL RESISTANCE**
Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MS-C-21166-1] c 35 N87-25555
A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492
- ELECTRICAL RESISTIVITY**
GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481
Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150
Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MS-C-12662-1] c 33 N79-12331
Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-2] c 35 N85-34373
Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
Solid state electrical switch employing materials with reversible phase transistors
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519
Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N92-10090
Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121
- ELECTRICITY**
Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
Small particle selective emitter
[NASA-CASE-LEW-14731-1] c 44 N91-13802
Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037
- ELECTRO-OPTICS**
Electro-optical scanning apparatus Patent Application
[NASA-CASE-NPO-11106] c 14 N70-34697
Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Ultrastable calibrated light source
[NASA-CASE-MS-C-12293-1] c 14 N72-27411
Optical conversion method --- for spacecraft television
[NASA-CASE-MS-C-12618-1] c 74 N78-17865
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874
Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356
- ELECTROACOUSTIC TRANSDUCERS**
Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
CDS solid state phase insensitive ultrasonic transducer --- annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
- ELECTROACOUSTIC WAVES**
Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
- ELECTROCARDIOGRAPHY**
Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
Rate meter
[NASA-CASE-MFS-20418] c 14 N73-24473
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MS-C-14339-1] c 05 N75-24716
Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
- ELECTROCATALYSTS**
Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487

Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344

ELECTROCHEMICAL CELLS

Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363

Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864

Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053

Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974

Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336

Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129

Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986

Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108

Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519

Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339

Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625

Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235

Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487

Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645

Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923

Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
[NASA-CASE-LEW-14973-1] c 44 N92-10222

ELECTROCHEMICAL MACHINING

Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395

ELECTROCHEMICAL OXIDATION

Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235

Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

ELECTROCHEMISTRY

Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925

Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073

Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478

ELECTRODE FILM BARRIERS

Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313

ELECTRODEPOSITION

Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043

Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466

Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948

Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684

Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235

ELECTRODES

Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542

Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925

Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786

Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666

Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922

Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608

Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618

Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189

Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193

Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346

Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492

Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987

Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022

Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093

Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618

Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002

Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293

Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678

Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120

Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121

Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103

Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246

Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688

Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783

Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150

Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108

High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913

Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692

Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716

Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525

Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606

Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717

Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395

Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268

Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415

Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645

Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262

Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456

Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734

Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 35 N86-25753

Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282

Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168

Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N91-25335

High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N91-28363

Substantially oxygen-free contact tube
[NASA-CASE-LAR-14169-1] c 37 N92-17677

Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-2-CU] c 76 N92-22040

ELECTRODIALYSIS

Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

ELECTROFORMING

Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919

ELECTROHYDRAULIC FORMING

Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249

ELECTROHYDRODYNAMICS

Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332

ELECTROKINETICS

Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226

ELECTROLUMINESCENCE

Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831

Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911

Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950

ELECTROLYSIS

Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044

Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904

Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391

Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271

Method for producing oxygen from lunar materials
[NASA-CASE-MSC-21759-1] c 25 N92-12079

ELECTROLYTES

Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363

Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052

Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336

Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103

Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710

Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621

Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457

ELECTROLYTIC CELLS
Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467
Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596

ELECTROMAGNETIC ABSORPTION
Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150

ELECTROMAGNETIC FIELDS
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472
Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240
Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411

ELECTROMAGNETIC HAMMERS
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833

ELECTROMAGNETIC INTERFERENCE
Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308
Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006

ELECTROMAGNETIC MEASUREMENT
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779

ELECTROMAGNETIC NOISE
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366

ELECTROMAGNETIC PROPERTIES
Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206

ELECTROMAGNETIC PROPULSION
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

ELECTROMAGNETIC PULSES
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

ELECTROMAGNETIC PUMPS
Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072

ELECTROMAGNETIC RADIATION
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023

ELECTROMAGNETIC SHIELDING
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397

ELECTROMAGNETIC WAVE FILTERS
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410

ELECTROMAGNETIC WAVE TRANSMISSION
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

ELECTROMAGNETISM
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337

ELECTROMAGNETS
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N91-23490

ELECTROMECHANICAL DEVICES
Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent
[NASA-CASE-XAC-00086] c 09 N70-33182
Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635

Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Ferromagnetic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833

ELECTROMETERS
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659

ELECTROMIGRATION
Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

ELECTROMOTIVE FORCES
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661

ELECTRON ATTACHMENT
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795

ELECTRON BEAM WELDING
Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486

ELECTRON BEAMS
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c 33 N74-21850
Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444
Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351

ELECTRON BOMBARDMENT
Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889

Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
 [NASA-CASE-XGS-01725] c 14 N69-39982
 Electron bombardment ion engine Patent
 [NASA-CASE-XNP-04124] c 28 N71-21822
 Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
 [NASA-CASE-XLE-04501] c 09 N71-23190
 Single grid accelerator for an ion thruster
 [NASA-CASE-XLE-10453-2] c 28 N73-27699
 Containerless high temperature calorimeter apparatus
 [NASA-CASE-MFS-23923-1] c 35 N81-19426
 Mechanical bonding of metal method
 [NASA-CASE-LEW-12941-1] c 26 N83-10170
 Diamondlike flake composites
 [NASA-CASE-LEW-13837-1] c 24 N84-22695
 Ion sputter textured graphite electrode plates
 [NASA-CASE-LEW-12919-2] c 70 N84-28565
 Apparatus and method for quiescent containerless processing of high temperature metals and alloys in low gravity
 [NASA-CASE-MFS-28087-1] c 35 N87-23944
 Surface modification using low energy ground state ion beams
 [NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

ELECTRON CAPTURE
 Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
 [NASA-CASE-LEW-13282-1] c 33 N82-24415

ELECTRON DISTRIBUTION
 Measurement of plasma temperature and density using radiation absorption
 [NASA-CASE-ARC-10598-1] c 75 N74-30156

ELECTRON EMISSION
 Triode thermionic energy converter
 [NASA-CASE-XLE-01015] c 03 N69-39898
 Textured carbon surfaces on copper by sputtering
 [NASA-CASE-LEW-14130-1] c 31 N86-32587

ELECTRON ENERGY
 Low energy electron magnetometer using a monoenergetic electron beam
 [NASA-CASE-LAR-12706-1] c 35 N84-12444

ELECTRON FLUX DENSITY
 Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
 [NASA-CASE-XGS-01725] c 14 N69-39982

ELECTRON GUNS
 Induction heating gun
 [NASA-CASE-LAR-13181-1] c 31 N85-29083
 Generation of intense negative ion beams
 [NASA-CASE-NPO-16061-1-CU] c 72 N87-21660

ELECTRON IRRADIATION
 Ion rocket Patent
 [NASA-CASE-XLE-00376] c 28 N70-37245

ELECTRON MICROSCOPES
 Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
 [NASA-CASE-XGS-01725] c 14 N69-39982
 Method of forming aperture plate for electron microscope
 [NASA-CASE-ARC-10448-2] c 74 N75-12732
 Electron microscope aperture system
 [NASA-CASE-ARC-10448-3] c 35 N77-14408
 Control system for ruling blazed, aberration corrected diffraction gratings
 [NASA-CASE-GSC-13240-1] c 35 N92-10186

ELECTRON MICROSCOPY
 Synchronized voltage contrast display analysis system
 [NASA-CASE-NPO-14567-1] c 33 N83-18996

ELECTRON OSCILLATIONS
 Programmable electronic synthesized capacitance
 [NASA-CASE-GSC-12961-1] c 33 N87-22895

ELECTRON PHOTON CASCADES
 Resistive anode image converter
 [NASA-CASE-HQN-10876-1] c 33 N76-27473

ELECTRON PLASMA
 Method and apparatus for producing a plasma Patent
 [NASA-CASE-XLA-00147] c 25 N70-34661

ELECTRON SCATTERING
 Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
 [NASA-CASE-NPO-16789-1-CU] c 72 N89-29169

ELECTRON SOURCES
 Electron microscope aperture system
 [NASA-CASE-ARC-10448-3] c 35 N77-14408

ELECTRON TRANSFER
 Process for reducing secondary electron emission Patent
 [NASA-CASE-XNP-09469] c 24 N71-25555
 All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
 [NASA-CASE-NPO-17612-1-CU] c 74 N92-16808

ELECTRON TRANSITIONS

Diatomic infrared gasdynamic laser --- for producing different wavelengths
 [NASA-CASE-ARC-10370-1] c 36 N75-31426

ELECTRON TUBES

Direct radiation cooling of the collector of linear beam tubes
 [NASA-CASE-XNP-09227] c 15 N69-24319
 Radiant heater having formed filaments Patent
 [NASA-CASE-XLE-00387] c 33 N70-34812
 Ion sputter textured graphite --- anode collector plates in electron tube devices
 [NASA-CASE-LEW-12919-1] c 24 N83-10117
 Gyrotron transmitting tube
 [NASA-CASE-LEW-13429-1] c 33 N83-31952

ELECTRON TUNNELING

Doped Josephson tunneling junction for use in a sensitive IR detector
 [NASA-CASE-NPO-13348-1] c 33 N75-31332
 Inelastic tunnel diodes
 [NASA-CASE-LEW-13833-1] c 33 N85-21492
 Control system for ruling blazed, aberration corrected diffraction gratings
 [NASA-CASE-GSC-13240-1] c 35 N92-10186
 Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
 [NASA-CASE-NPO-17812-3-CU] c 76 N92-22041

ELECTRONIC CONTROL

Monopulse system with an electronic scanner
 [NASA-CASE-XGS-05582] c 07 N69-27460
 Electronic motor control system Patent
 [NASA-CASE-XMF-01129] c 09 N70-38712
 Phase multiplying electronic scanning system Patent
 [NASA-CASE-NPO-10302] c 10 N71-26142
 Ion beam deflector Patent
 [NASA-CASE-LEW-10689-1] c 28 N71-26173
 Peak acceleration limiter for vibrational tester Patent
 [NASA-CASE-NPO-10556] c 14 N71-27185
 Digital control and information system
 [NASA-CASE-NPO-11016] c 08 N72-31226
 Electronic system for high power load control --- solar arrays
 [NASA-CASE-NPO-15358-1] c 33 N83-27126
 Closed loop electrostatic levitation system
 [NASA-CASE-NPO-15553-1] c 33 N85-29142
 Electronic precipitator control
 [NASA-CASE-LAR-13273-2] c 33 N90-20320
 Solder dross removal apparatus
 [NASA-CASE-MFS-28406-1] c 37 N91-13729

ELECTRONIC EQUIPMENT

Monopulse system with an electronic scanner
 [NASA-CASE-XGS-05582] c 07 N69-27460
 Pulse activated polarographic hydrogen detector Patent
 [NASA-CASE-XMF-06531] c 14 N71-17575
 Stable amplifier having a stable quiescent point Patent
 [NASA-CASE-XGS-02812] c 09 N71-19466
 Static inverter Patent
 [NASA-CASE-XGS-05289] c 09 N71-19470
 Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
 [NASA-CASE-NXP-02140] c 09 N71-23097
 Optimum preselection diversity receiving system Patent
 [NASA-CASE-XGS-00740] c 07 N71-23098
 Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
 [NASA-CASE-XLE-04501] c 09 N71-23190
 Method and apparatus for varying thermal conductivity Patent
 [NASA-CASE-XNP-05524] c 33 N71-24876
 A solid state acoustic variable time delay line Patent
 [NASA-CASE-ERC-10032] c 10 N71-25900
 Automatic signal range selector for metering devices Patent
 [NASA-CASE-XMS-06497] c 14 N71-26244
 Fringe counter for interferometers Patent
 [NASA-CASE-LAR-10204] c 14 N71-27215
 Temperature regulation circuit Patent
 [NASA-CASE-XNP-02792] c 14 N71-28958
 Method and apparatus for data compression by a decreasing slope threshold test
 [NASA-CASE-NPO-10769] c 08 N72-11171
 Universal environment package with sectional component housing
 [NASA-CASE-KSC-10031] c 15 N72-22486
 Lead attachment to high temperature devices
 [NASA-CASE-ERC-10224] c 09 N72-25261
 Method and apparatus for detecting surface ions on silicon diodes and transistors
 [NASA-CASE-ERC-10325] c 15 N72-25457
 Versatile arithmetic unit for high speed sequential decoder
 [NASA-CASE-NPO-11371] c 08 N73-12177

Data processor with conditionally supplied clock signals
 [NASA-CASE-GSC-10975-1] c 08 N73-13187
 Heat detection and compositions and devices therefor
 [NASA-CASE-NPO-10764-1] c 14 N73-14428
 Phase control circuits using frequency multiplications for phased array antennas
 [NASA-CASE-ERC-10285] c 10 N73-16206
 Junction range finder
 [NASA-CASE-KSC-10108] c 14 N73-25461
 Electronic strain-level counter
 [NASA-CASE-LAR-10756-1] c 32 N73-26910
 Automatic vehicle location system
 [NASA-CASE-NPO-11850-1] c 32 N74-12912
 Automatic focus control for facsimile cameras
 [NASA-CASE-LAR-11213-1] c 35 N75-15014
 Electronic analog divider
 [NASA-CASE-LEW-11881-1] c 33 N77-17354
 Moisture content and gas sampling device
 [NASA-CASE-MSC-18866-1] c 35 N85-29213
 Visual aid for the hearing impaired
 [NASA-CASE-GSC-13027-1-CU] c 35 N91-27522

ELECTRONIC EQUIPMENT TESTS
 Analog to digital converter tester Patent
 [NASA-CASE-XLA-06713] c 14 N71-28991
 Signal conditioner test set
 [NASA-CASE-KSC-10750-1] c 35 N75-12270
 Decommulator patchboard verifier
 [NASA-CASE-KSC-11065-1] c 33 N81-26359
 Synchronized voltage contrast display analysis system
 [NASA-CASE-NPO-14567-1] c 33 N83-18996
 Cross-contact chain
 [NASA-CASE-NPO-16784-1] c 33 N87-10231

ELECTRONIC FILTERS
 Self-tuning bandpass filter
 [NASA-CASE-ARC-10264-1] c 09 N73-20231
 Capacitance multiplier and filter synthesizing network
 [NASA-CASE-NPO-11948-1] c 33 N74-32712
 Notch filter
 [NASA-CASE-MFS-23303-1] c 32 N77-18307

ELECTRONIC MODULES
 Thermal conductive connection and method of making same Patent
 [NASA-CASE-XMS-02087] c 09 N70-41717
 Solar cell submodule Patent
 [NASA-CASE-XNP-05821] c 03 N71-11056
 Heat conductive resiliently compressible structure for space electronics package modules Patent
 [NASA-CASE-MSC-12389] c 33 N71-29052
 Tool for use in lifting pin supported objects
 [NASA-CASE-NPO-13157-1] c 37 N74-32918
 Phase substitution of spare converter for a failed one of parallel phase staggered converters
 [NASA-CASE-NPO-13812-1] c 33 N77-30365
 Method of making encapsulated solar cell modules
 [NASA-CASE-LEW-12185-1] c 44 N78-25528
 Electronically scanned pressure sensor module with in situ calibration capability
 [NASA-CASE-LAR-12230-1] c 35 N79-14347
 Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
 [NASA-CASE-NPO-14000-1] c 33 N79-24254
 Circuit for automatic load sharing in parallel converter modules
 [NASA-CASE-NPO-14056-1] c 33 N79-24257
 Method and apparatus for fabricating improved solar cell modules
 [NASA-CASE-NPO-14416-1] c 44 N81-14389
 Redundant operation of counter modules
 [NASA-CASE-NPO-14162-1] c 60 N81-15706

ELECTRONIC PACKAGING
 Electrical feed-through connection for printed circuit boards and printed cable
 [NASA-CASE-XMF-01483] c 14 N69-27431
 Capacitor and method of making same Patent
 [NASA-CASE-LEW-10364-1] c 09 N71-13522
 Method of evaluating moisture barrier properties of encapsulating materials Patent
 [NASA-CASE-NPO-10051] c 18 N71-24934
 Microelectronic module package Patent
 [NASA-CASE-XMS-02182] c 10 N71-28783
 Frangible electrochemical cell
 [NASA-CASE-XGS-10010] c 03 N72-15986
 Hermetically sealed semiconductor
 [NASA-CASE-GSC-10791-1] c 15 N73-14469
 Circuit board package with wedge shaped covers
 [NASA-CASE-MFS-21919-1] c 10 N73-25243
 Integrated circuit package with lead structure and method of preparing the same
 [NASA-CASE-MFS-21374-1] c 33 N74-12951
 Tool for use in lifting pin supported objects
 [NASA-CASE-NPO-13157-1] c 37 N74-32918
 Chassis unit insert tightening-extract device
 [NASA-CASE-XMS-01077-1] c 37 N79-33467

Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839

Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934

Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N88-23941

ELECTRONIC RECORDING SYSTEMS
Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

ELECTRONIC TRANSDUCERS
Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616

Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597

Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392

Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359

Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934

ELECTRONS
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767

Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795

ELECTROPHORESIS
Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948

Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744

Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104

Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163

Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169

Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397

Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715

Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126

Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845

Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603

ELECTROPHOTOMETERS
Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

ELECTROPHYSIOLOGY
Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618

ELECTROPLATING
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903

Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691

Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388

ELECTROSTATIC BONDING
Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614

ELECTROSTATIC CHARGE

Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095

Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477

Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083

Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

ELECTROSTATIC ENGINES
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265

Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422

Ion rocket Patent
[NASA-CASE-GSC-00376] c 28 N70-37245

Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661

Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

ELECTROSTATIC GENERATORS
Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331

Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142

Piezoelectrostatic generator
[NASA-CASE-MFS-28298-1] c 76 N91-14872

ELECTROSTATIC PRECIPITATORS
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192

Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431

ELECTROSTATIC PROBES
Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014

Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572

ELECTROSTATIC PROPULSION
Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574

Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

ELECTROSTATIC SHIELDING
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148

Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397

High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

ELECTROSTATICS
Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522

Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941

Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508

Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121

ELECTROTHERMAL ENGINES
Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356

Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175

Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875

ELEVATION
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627

Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067

Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918

ELEVATORS (LIFTS)
Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815

Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453

ELEVONS
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

ELLIPSES
Ellipsograph for pantograph Patent
[NASA-CASE-XLA-03102] c 14 N71-21079

ELLIPSOLOGRAPHS

Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529

ELONGATION
Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233

Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449

ELUTION
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844

Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397

EMBEDDING
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518

EMBRITTLMENT
Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170

EMERGENCIES
Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205

Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761

Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481

Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N91-15142

Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139

Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530

EMERGENCY BREATHING TECHNIQUES
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

EMERGENCY LIFE SUSTAINING SYSTEMS
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851

Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171

Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844

Personnel emergency carrier vehicle
[NASA-CASE-GSC-11282-1] c 85 N87-21755

EMERGENCY LOCATOR TRANSMITTERS
Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N89-14374

EMISSION SPECTRA
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871

EMITTANCE
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875

Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1] c 35 N91-13686

Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515

EMITTERS
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112

Small particle selective emitter
[NASA-CASE-LEW-14731-1] c 44 N91-13802

Matching optics for Gaussian beams
[NASA-CASE-ARC-11892-1-SB] c 74 N92-16810

Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037

EMULSIONS
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595

ENAMELS
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160

ENCAPSULATING
Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046

Flexible, repairable, pottable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881

Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992

Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044

Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528

Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700
Method of preforming and assembling superconducting circuit elements
[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490

ENCLOSURES
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
Moisture content and gas sampling device
[NASA-CASE-MS-18866-1] c 35 N85-29213

END EFFECTORS
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817
Passively activated prehensile digit for a robotic end effector
[NASA-CASE-NPO-16766-1-CU] c 37 N89-13785
Gripping device
[NASA-CASE-MS-21365-1] c 37 N90-20408
Spiral lead platen robotic end effector
[NASA-CASE-LAR-13855-1] c 37 N91-14615
Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616
Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N91-17401
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MS-21476-1] c 37 N91-21542
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544
Electromagnetic attachment mechanism
[NASA-CASE-MS-21463-1] c 37 N91-23490
Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N91-23783
Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MS-21517-1] c 37 N91-24577
Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MS-21517-1] c 31 N92-16161
End effector with astronaut foot restraint
[NASA-CASE-MS-21721-1] c 54 N92-16559

END PLATES
Double swivel toggle release
[NASA-CASE-MS-21436-1] c 37 N90-21390

ENDOSCOPES
Borescope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
Apparatus for endoscopic examination --- analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725

ENDOTHERMIC REACTIONS
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975

ENEMY PERSONNEL
Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160

ENERGY ABSORPTION
Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Energy absorbing structure Patent Application
[NASA-CASE-MS-12279-1] c 15 N70-35679
Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443
Docking structure for spacecraft
[NASA-CASE-MFS-20863] c 31 N73-26876
Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460
Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MS-21562-1] c 16 N92-16007

ENERGY BANDS

Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118

ENERGY CONSERVATION

Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808

ENERGY CONSUMPTION

Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709

ENERGY CONVERSION

Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581
Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582
Small particle selective emitter
[NASA-CASE-LEW-14731-1] c 44 N91-13802
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345
Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538
Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037

ENERGY CONVERSION EFFICIENCY

Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410

ENERGY DISSIPATION

Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489
Energy dissipator
[NASA-CASE-MS-21555-1] c 37 N91-23492

ENERGY DISTRIBUTION

Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

ENERGY GAPS (SOLID STATE)

High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

ENERGY LEVELS

High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877

Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

ENERGY POLICY

Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525
Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

ENERGY SOURCES

Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522

ENERGY STORAGE

Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331
Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N91-23617

ENERGY TECHNOLOGY

Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473

- Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
- ENERGY TRANSFER**
Solar energy absorber
[NASA-CASE-MFS-22743-1] c 44 N76-22657
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
Multi-heat addition turbine engine
[NASA-CASE-LEW-15094-1] c 07 N91-23180
Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N91-23617
Pulse thermal energy transport system
[NASA-CASE-LEW-15235-1] c 34 N92-10167
- ENGINE ANALYZERS**
Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
- ENGINE CONTROL**
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
- ENGINE COOLANTS**
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
- ENGINE DESIGN**
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Space vehicle system
[NASA-CASE-MS-C-12561-1] c 18 N76-17185
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
- ENGINE FAILURE**
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
- ENGINE INLETS**
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
- ENGINE MONITORING INSTRUMENTS**
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466
- ENGINE NOISE**
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
- ENGINE PARTS**
Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
- Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560
- ENGINE STARTERS**
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
- ENGINE TESTS**
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
- ENGINEERING DRAWINGS**
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
- ENGRAVING**
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508
- ENTHALPY**
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
- ENTRAINMENT**
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
- ENUMERATION**
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
- ENVIRONMENT SIMULATION**
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Treadmill for space flight
[NASA-CASE-MS-C-21752-1] c 54 N92-17910
- ENVIRONMENT SIMULATORS**
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
- ENVIRONMENTAL CONTROL**
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137
Dual stage check valve
[NASA-CASE-MS-C-13587-1] c 15 N73-30459
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750
- ENVIRONMENTAL ENGINEERING**
Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792
- ENVIRONMENTAL MONITORING**
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
Vapor fragrancier
[NASA-CASE-LAR-13680-1] c 35 N87-25561
- ENVIRONMENTAL TESTS**
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
- Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
- ENVIRONMENTS**
Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195
- ENZYME ACTIVITY**
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
- ENZYMES**
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MS-C-21936-1] c 25 N92-19486
- EPICYCLOIDS**
Sequencing device utilizing planetary gear set
[NASA-CASE-MS-C-19514-1] c 37 N79-20377
- EPITAXY**
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers
[NASA-CASE-LEW-15223-1] c 76 N91-26967
- EPOXY COMPOUNDS**
Synthesis of siloxane-containing epoxy polymers Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
Cellular thermosetting fluorodiepoxide polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
- EPOXY MATRIX COMPOSITES**
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
- EPOXY RESINS**
Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
Metal (2,4,4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380

Aminophenoxycyclotriposphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
 [NASA-CASE-ARC-11548-1] c 27 N87-25469
 A process for preparing
 1,3-diamino-5-pentafluorosulfanybenzene and polymers therefrom
 [NASA-CASE-LAR-14773-1-CU] c 27 N92-10105

EQUATIONS OF MOTION

Kinesimetric method and apparatus
 [NASA-CASE-MS-C-18929-1] c 39 N83-20280

EQUIPMENT

Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
 [NASA-CASE-ARC-10441-1] c 35 N74-15126
 Apparatus for supplying conditioned air at a substantially constant temperature and humidity
 [NASA-CASE-GSC-12191-1] c 31 N80-32583

EQUIPMENT SPECIFICATIONS

Differential pressure cell Patent
 [NASA-CASE-XAC-00042] c 14 N70-34816
 High-temperature, high-pressure spherical segment valve Patent
 [NASA-CASE-XAC-00074] c 15 N70-34817
 Optical torquemeter Patent
 [NASA-CASE-XLE-00503] c 14 N70-34818
 Magnetically centered liquid column float Patent
 [NASA-CASE-XAC-00030] c 14 N70-34820
 Electric propulsion engine test chamber Patent
 [NASA-CASE-XLE-00252] c 11 N70-34844
 Channel-type shell construction for rocket engines and the like Patent
 [NASA-CASE-XLE-00144] c 28 N70-34860
 Non-reusable kinetic energy absorber Patent
 [NASA-CASE-XLE-00810] c 15 N70-34861
 Slit regulated gas journal bearing Patent
 [NASA-CASE-XNP-00476] c 15 N70-38620
 Optical communications system Patent
 [NASA-CASE-XLA-01090] c 07 N71-12389
 Stretcher Patent
 [NASA-CASE-XMF-06589] c 05 N71-23159
 Rocket thrust throttling system
 [NASA-CASE-LEW-10374-1] c 28 N73-13773
 Process for making diamonds
 [NASA-CASE-MFS-20698-2] c 15 N73-19457
 Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
 [NASA-CASE-LAR-10426-1] c 09 N74-19528
 Apparatus for conducting flow electrophoresis in the substantial absence of gravity
 [NASA-CASE-MFS-21394-1] c 34 N74-27744
 Thermocouple tape --- developed from thermoelectrically different metals
 [NASA-CASE-LEW-11072-2] c 35 N76-15434
 Field effect transistor and method of construction thereof
 [NASA-CASE-MFS-23312-1] c 33 N78-27326
 Constant magnification optical tracking system
 [NASA-CASE-NPO-14813-1] c 74 N82-24072
 Remotely controlled spray gun
 [NASA-CASE-MFS-28110-1] c 37 N87-24689
 Improved method and apparatus for waste collection and storage
 [NASA-CASE-MS-C-21025-1] c 31 N87-25495
 Electrostatic discharge test apparatus
 [NASA-CASE-MS-C-21094-1] c 35 N88-24941

EQUIPOTENTIALS

Equipotential space suit Patent
 [NASA-CASE-LAR-10007-1] c 05 N71-11195
 Instrument for measuring potentials on two dimensional electric field plots Patent
 [NASA-CASE-XLA-08493] c 10 N71-19421

ERGOMETERS

Restraint system for ergometer
 [NASA-CASE-MFS-21046-1] c 14 N73-27377
 Ergometer
 [NASA-CASE-MFS-21109-1] c 05 N73-27941
 Tilting table for ergometer and for other biomedical devices
 [NASA-CASE-MFS-21010-1] c 05 N73-30078
 Foot pedal operated fluid type exercising device
 [NASA-CASE-MS-C-11561-1] c 05 N73-32014
 Ergometer calibrator --- for any ergometer utilizing rotating shaft
 [NASA-CASE-MFS-21045-1] c 35 N75-15932

EROSION

Thermal shock and erosion resistant tantalum carbide ceramic material
 [NASA-CASE-LAR-11902-1] c 27 N78-17206

ERROR ANALYSIS

Program for computer aided reliability estimation
 [NASA-CASE-NPO-13086-1] c 15 N73-12495
 Bit error rate measurement above and below bit rate tracking threshold
 [NASA-CASE-MS-C-12743-1] c 32 N79-10263

Digital phase-lock loop having an estimator and predictor of error
 [NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
 Self-checking on-line testable static RAM
 [NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
 Detection of multiple-bit errors from single-ion tracks in integrated circuits
 [NASA-CASE-NPO-18075-1-CU] c 33 N91-13622
 Method of recertifying a loaded bearing member
 [NASA-CASE-LAR-14168-1] c 39 N92-12302

ERROR CORRECTING CODES

Error correction method and apparatus for electronic timepieces
 [NASA-CASE-LAR-12654-1] c 33 N83-36357
 Self-correcting electronically scanned pressure sensor
 [NASA-CASE-LAR-12686-1] c 35 N84-14491
 Reed-Solomon decoder
 [NASA-CASE-NPO-15982-1] c 60 N87-21591
 Processing circuit with asymmetry corrector and convolutional encoder for digital data
 [NASA-CASE-MS-C-20187-1] c 33 N87-25531
 Local area network with fault-checking, priorities, and redundant backup
 [NASA-CASE-NPO-16949-1-CU] c 62 N90-19776
 VLSI architecture for a Reed-Solomon decoder
 [NASA-CASE-NPO-17897-1-CU] c 33 N90-27040

ERROR CORRECTING DEVICES

Automatic fault correction system for parallel signal channels Patent
 [NASA-CASE-XNP-03263] c 09 N71-18843
 Elimination of frequency shift in a multiplex communication system Patent
 [NASA-CASE-XNP-01306] c 07 N71-20814
 Error correcting method and apparatus Patent
 [NASA-CASE-XNP-02748] c 08 N71-22749
 Failure detection and control means for improved drift performance of a gimbaled platform system
 [NASA-CASE-MFS-23551-1] c 04 N76-26175
 Guide for a typewriter
 [NASA-CASE-MFS-15218-1] c 37 N77-19457

ERROR DETECTION CODES

Self-testing and repairing computer Patent
 [NASA-CASE-NPO-10567] c 08 N71-24633
 Local area network with fault-checking, priorities, and redundant backup
 [NASA-CASE-NPO-16949-1-CU] c 62 N90-19776

ERROR SIGNALS

Automatic fault correction system for parallel signal channels Patent
 [NASA-CASE-XNP-03263] c 09 N71-18843
 Sampled data controller Patent
 [NASA-CASE-GSC-10554-1] c 08 N71-29033
 Bit error rate measurement above and below bit rate tracking threshold
 [NASA-CASE-MS-C-12743-1] c 32 N79-10263
 Triac failure detector
 [NASA-CASE-MFS-25607-1] c 33 N83-34190
 Automated weld torch guidance control system
 [NASA-CASE-MFS-25807-2] c 37 N86-21850
 Comparator with noise suppression
 [NASA-CASE-LAR-13151-1] c 33 N87-21235
 Self-checking on-line testable static RAM
 [NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
 Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
 [NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
 Modified fast frequency acquisition via adaptive least squares algorithm
 [NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

ERRORS

Analog-to-digital converter
 [NASA-CASE-MS-C-13110-1] c 08 N72-22163
 Compensation for primary reflector wavefront error
 [NASA-CASE-NPO-16869-1-CU] c 74 N86-33138
 Porous plug for reducing orifice induced pressure error in airfoils
 [NASA-CASE-LAR-13569-1] c 35 N89-12841
 Asymmetric soft-error resistant memory
 [NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
 Feedback controlled optics with wavefront compensation
 [NASA-CASE-NPO-18194-1-CU] c 74 N91-32924

ESCAPE CAPSULES

Aerial capsule emergency separation device Patent
 [NASA-CASE-XLA-00115] c 03 N70-33343
 Emergency escape system Patent
 [NASA-CASE-XKS-02342] c 05 N71-11199
 Emergency earth orbital escape device
 [NASA-CASE-MS-C-13281] c 31 N72-18859

ESCAPE SYSTEMS

Emergency escape system Patent
 [NASA-CASE-MS-C-12086-1] c 05 N71-12345
 Emergency escape system Patent
 [NASA-CASE-XKS-07814] c 15 N71-27067

Explosively activated egress area
 [NASA-CASE-LAR-12624-1] c 01 N83-35992
 Assured crew return vehicle
 [NASA-CASE-MS-C-21536-1] c 18 N91-13483
 Assured crew return vehicle
 [NASA-CASE-MS-C-21536-1] c 18 N92-21999

ESCHERICHIA

Method for detecting coliform organisms
 [NASA-CASE-ARC-11322-1] c 51 N83-28849

ESTERS

Fluorinated esters of polycarboxylic acids
 [NASA-CASE-MFS-21040-1] c 06 N73-30098
 Addition polyimides with enhanced processability
 [NASA-CASE-LEW-15043-1] c 27 N91-32230

ESTIMATING

Digital phase-lock loop having an estimator and predictor of error
 [NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
 Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
 [NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
 Modified fast frequency acquisition via adaptive least squares algorithm
 [NASA-CASE-NPO-17845-1-CU] c 61 N90-27341
 Method for non-destructive estimation of waveguide directional coupler dimensions
 [NASA-CASE-NPO-18454-1-CU] c 33 N92-17865

ETCHING

Masking device Patent
 [NASA-CASE-XNP-02092] c 15 N70-42033
 Method for etching copper Patent
 [NASA-CASE-XGS-06306] c 17 N71-16044
 High resolution developing of photosensitive resists Patent
 [NASA-CASE-XGS-04993] c 14 N71-17574
 Etching of aluminum for bonding Patent
 [NASA-CASE-XMF-02303] c 17 N71-23828
 Selective plating of etched circuits without removing previous plating Patent
 [NASA-CASE-XGS-03120] c 15 N71-24047
 Plating nickel on aluminum castings Patent
 [NASA-CASE-XNP-04148] c 17 N71-24830
 Scanning nozzle plating system --- for etching or plating metals on substrates without masking
 [NASA-CASE-NPO-11758-1] c 31 N74-23065
 Method for applying photographic resists to otherwise incompatible substrates
 [NASA-CASE-MS-C-18107-1] c 27 N81-25209
 Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
 [NASA-CASE-GSC-12515-1] c 33 N81-26360
 Liquid immersion apparatus for minute articles
 [NASA-CASE-MFS-25363-1] c 37 N82-12441
 Controlled in situ etch-back
 [NASA-CASE-NPO-15625-1] c 76 N83-20789
 Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
 [NASA-CASE-LEW-13107-2] c 52 N84-23095
 Ion beam sputter etching
 [NASA-CASE-LEW-13899-1] c 31 N87-21160
 Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
 [NASA-CASE-LAR-13562-1] c 24 N90-25196
 Method of fabricating germanium and gallium arsenide devices
 [NASA-CASE-GSC-13265-1] c 76 N91-14066
 Metal etching composition
 [NASA-CASE-MFS-29576-1] c 25 N91-15368
 Process for the homeopitaxial growth of single-crystal silicon carbide films on silicon carbide wafers
 [NASA-CASE-LEW-15223-1] c 76 N91-26967
 Etching method for photoresists or polymers
 [NASA-CASE-ARC-11873-2] c 25 N91-31258
 Method for anisotropic etching in the manufacture of semiconductor devices
 [NASA-CASE-MS-C-21631-1] c 75 N91-32947
 Solid lubricants on pretreated surfaces
 [NASA-CASE-LEW-14474-2] c 27 N92-11186
 Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
 [NASA-CASE-NPO-17736-2-CU] c 24 N92-18561

ETHANE

The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
 [NASA-CASE-ARC-11097-1] c 25 N82-24312
 Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
 [NASA-CASE-LEW-14345-2] c 25 N90-23497
 Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
 [NASA-CASE-LEW-14345-3] c 23 N91-17141
 Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
 [NASA-CASE-LEW-14345-4] c 23 N91-25185

Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-6] c 23 N92-17882

ETHERS
Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Perfluoro (imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953
Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N91-13561
Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621
Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N91-27220
Ethynyl terminated imidithioethers and resins therefrom
[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307

ETHYL COMPOUNDS
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515

ETHYLENE OXIDE
Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

EUTECTIC ALLOYS
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

EUTECTICS
Method of preparing a thermal barrier coating
[NASA-CASE-LEW-14999-2] c 27 N91-26376

EVACUATING (VACUUM)
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111

EVAPORATION
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

EVAPORATIVE COOLING

Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

EVAPORATORS

Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N86-27593
Pulse thermal energy transport system
[NASA-CASE-LEW-15235-1] c 34 N92-10167

EXAMINATION

Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594

EXCHANGING

Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

EXCITATION

Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169

EXCLUSION

Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

EXHAUST EMISSION

Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555

EXHAUST GASES

Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129

EXHAUST NOZZLES

Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374
Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

EXOTHERMIC REACTIONS

Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461

EXPANDABLE STRUCTURES

Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117
Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865

Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

EXPANSION

Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

EXPERIMENT DESIGN

Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161

EXPERT SYSTEMS

Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724
General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911
Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036

EXPIRED AIR

Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750

EXPLOSIONS

Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484

EXPLOSIVE DEVICES

Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078
Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958
Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Apparatus and method for explosive bonding to edge of flyer plate
[NASA-CASE-LAR-14096-1] c 31 N91-31476

EXPLOSIVE FORMING

Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249

EXPLOSIVE WELDING

Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
Apparatus and method for explosive bonding to edge of flyer plate
[NASA-CASE-LAR-14096-1] c 31 N91-31476

EXPLOSIVES

Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231

Permanent wire splicing by an explosive joining process
[NASA-CASE-LAR-13825-1] c 31 N92-16162

EXPONENTIAL FUNCTIONS
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176

EXPOSURE
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717

EXPULSION
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833

EXPULSION BLADDERS
Expulsion bladder-equipped storage tank structure
Patent
[NASA-CASE-XNP-00612] c 11 N70-38182

EXTENSIONS
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701

EXTENSOMETERS
Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452
Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

EXTERNAL COMBUSTION ENGINES
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370

EXTERNAL STORE SEPARATION
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314

EXTERNAL STORES
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373

EXTERNAL TANKS
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334

EXTRACTION
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911

EXTRAVEHICULAR ACTIVITY
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Hand-held self-manuevering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345
Fastener apparatus Patent
[NASA-CASE-ARC-10140-1] c 15 N71-17653
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
Life support system
[NASA-CASE-MSC-12411-1] c 05 N72-20096
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758
Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860

EXTREME ULTRAVIOLET RADIATION
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096

EXTREMELY LOW RADIO FREQUENCIES
VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614

EXTRUDING

Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502

EYE (ANATOMY)
Sight switch using an infrared source and sensor
Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874
Portable dynamic fundus instrument
[NASA-CASE-MSC-21675-1] c 52 N91-13865

EYE DISEASES
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874

EYE EXAMINATIONS
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793

EYEPIECES
Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857

F**FABRICATION**

Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444
Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
Method for fabricating solar cells having integrated collector grits
[NASA-CASE-LEW-12819-2] c 44 N79-18444
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Method of fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671
Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684
Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-26946
Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N90-22724
Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700
Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333
Method of preparing a thermal barrier coating
[NASA-CASE-LEW-14999-2] c 27 N91-26376
Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478
Nozzle fabrication technique
[NASA-CASE-MSC-21299-2] c 37 N91-32508
Formation of self-aligned guard rings for monolithic Schottky-barrier diode arrays
[NASA-CASE-NPO-17734-1-CU] c 33 N92-10146
Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196
Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-2-CU] c 76 N92-22040

FABRICS
Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498
Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374
Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236

- Woven angle ply fabric and apparatus and method for producing such fabrics
[NASA-CASE-LAR-14048-1] c 31 N92-11220
- FABRY-PEROT INTERFEROMETERS**
Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
- FACSIMILE COMMUNICATION**
Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
- FACTORIAL DESIGN**
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
- FAIL-SAFE SYSTEMS**
Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
- FAILURE**
Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390
- FAILURE ANALYSIS**
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N91-23490
- FAILURE MODES**
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712
A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121
- FAIRINGS**
Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
- FALLING SPHERES**
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
- FAR FIELDS**
Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N91-32923
- FAR INFRARED RADIATION**
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
- FAR ULTRAVIOLET RADIATION**
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
- FARADAY EFFECT**
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
- FAST FOURIER TRANSFORMATIONS**
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
- FASTENERS**
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
- Fastener apparatus Patent
[NASA-CASE-ARC-10140-1] c 15 N71-17653
Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390
Braided composite fasteners and method for producing same
[NASA-CASE-LAR-14062-1] c 37 N90-27114
Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N91-21221
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N91-23491
Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498
Blind fastening apparatus
[NASA-CASE-LAR-14542-1] c 37 N92-11354
J-hook latching device
[NASA-CASE-GSC-13200-1] c 37 N92-21500
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726
- FATIGUE (MATERIALS)**
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
- FATIGUE LIFE**
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493
- FATIGUE TESTING MACHINES**
Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
- FATIGUE TESTS**
Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712
Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N91-27175
- FATS**
Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
- FAULT TOLERANCE**
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
- Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498
- FECES**
Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723
Method for waste collection and storage
[NASA-CASE-MSC-21025-2] c 54 N91-14724
- FEED SYSTEMS**
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
- FEEDBACK**
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
- FEEDBACK AMPLIFIERS**
Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
- FEEDBACK CIRCUITS**
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356
- FEEDBACK CONTROL**
Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613

Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c 17 N78-17140
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259
Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951
Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N91-21824
Improved superconducting bearings
[NASA-CASE-GSC-13346-1] c 37 N91-28578
Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924
Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457
Closed-loop motor control using high-speed fiber optics
[NASA-CASE-MSC-21806-1] c 74 N92-17863

FEEDBACK FREQUENCY MODULATION
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334

FEEDERS
Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271
Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N91-25875
Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747

FEEDFORWARD CONTROL
Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852

FEET (ANATOMY)
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112

FELTS
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221

FEMALES
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740

FERMENTATION
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

FERRITES
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257

FERROFLUIDS
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284

FERROMAGNETIC FILMS
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

FERROMAGNETIC MATERIALS
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527

FERROMAGNETISM
High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248

FETUSES
Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1] c 35 N91-13686

FIBER COMPOSITES
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Arc spray fabrication of metal matrix composite monolayer
[NASA-CASE-LEW-13828-1] c 24 N85-30027
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867
Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538
Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
[NASA-CASE-LAR-13562-2] c 24 N91-25199
Intercalated hybrid graphite fiber composite
[NASA-CASE-LEW-15241-1] c 24 N92-17861

FIBER OPTICS
Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186

Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
Optical fiber coupling method and apparatus
[NASA-CASE-NPO-15464-1] c 74 N85-29749
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259
Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689
Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Fiber optic microphone
[NASA-CASE-LAR-14402-1-CU] c 74 N91-15874
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871
Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N91-27957
Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811
Closed-loop motor control using high-speed fiber optics
[NASA-CASE-MSC-21806-1] c 74 N92-17863
Wide field strip-imaging optical system
[NASA-CASE-NPO-18146-1-CU] c 74 N92-17892

FIBER RELEASE
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

FIBER STRENGTH
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

FIBERS
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793
Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320
Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025
High temperature, flexible pressure-actuated, brush seal
[NASA-CASE-LEW-15086-1] c 37 N92-16318
Production of mullite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870
High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043

FIELD COILS
Electromagnetic Meissner effect launcher
[NASA-CASE-MFS-28323-1] c 14 N92-15081

FIELD EFFECT TRANSISTORS

- Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
- Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
- Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
- Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
- Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
- Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
- Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331
- Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
- Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
- CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
- Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
- Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
- FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
- Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282

FIELD EMISSION

- Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
- Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832

FIELD OF VIEW

- Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
- EMU helmet mounted display
[NASA-CASE-MS-21460-1] c 54 N91-13879
- Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096

FILAMENT WINDING

- Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
- Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651
- Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
- Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171

FILAMENTS

- Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
- Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
- Process for application of powder particles to filamentary materials
[NASA-CASE-LAR-14231-1] c 24 N92-10070

FILLERS

- Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
- Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
- Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
- Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
- Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700
- Thermally activated retainer means
[NASA-CASE-MS-21793-1] c 16 N91-28186

FILLING

- Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519

FILM COOLING

- Multislit film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
- Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
- Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
- Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

FILM THICKNESS

- Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
- Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
- Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MS-18936-1] c 35 N83-29652
- Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

FILMS

- Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
- X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835

FILTERS

- Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185
- Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
- Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
- Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545

FILTRATION

- Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
- Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
- Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
- Infusion extractor
[NASA-CASE-MS-20761-1] c 37 N87-15465
- Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545

FINGERS

- Preloaded latching device
[NASA-CASE-MS-21730-1] c 37 N91-23493
- Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795

FINS

- Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
- Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421

FIRE EXTINGUISHERS

- Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
- Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
- Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

FIRE PREVENTION

- Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
- Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
- Fire resistant polyamide based on 1-(diorganooxyphosphoryl)methyl-2,4- and -2,6-diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568

FIREPROOFING

- Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
- Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562

- Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
- Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
- Non-flammable elastomeric fiber from a fluorinated elastomer and containing a halogenated flame retardant
[NASA-CASE-MS-14331-1] c 27 N76-24405
- Flame retardant spandex type polyurethanes
[NASA-CASE-MS-14331-2] c 27 N78-17213
- Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100

FIRES

- Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
- Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173

FIRING (IGNITING)

- Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

FITTING

- Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731

FITTINGS

- Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
- Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
- Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
- Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
- Expandable pallet for space station interface attachments
[NASA-CASE-MS-21117-1] c 18 N88-28958
- Dual diaphragm tank with telltale drain
[NASA-CASE-MS-21703-1] c 31 N91-25305

FIXED WINGS

- Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243

FIXTURES

- Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
- Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
- Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
- Blind fastening apparatus
[NASA-CASE-LAR-14542-1] c 37 N92-11354

FLAME PROBES

- Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

FLAME RETARDANTS

- Flame retardant spandex type polyurethanes
[NASA-CASE-MS-14331-2] c 27 N78-17213
- Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MS-14331-3] c 27 N78-32262
- Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MS-14903-3] c 27 N80-24438
- Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
- Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MS-18382-1] c 27 N82-16238
- Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
- Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MS-18382-2] c 27 N84-14324
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
- Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394

Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
The 1-(diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042

FLAME SPRAYING
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

FLAME TEMPERATURE
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357

FLAMES
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403

FLAMMABILITY
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161

FLANGES
Cassegrainian antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562

FLAPS (CONTROL SURFACES)
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736

FLARED BODIES
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389

FLASH LAMPS
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189

FLAT CONDUCTORS
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226

Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227

FLAT PLATES
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928

FLEXIBILITY
Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
Nozzle extraction process and handmeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HON-10888-1] c 44 N79-14527
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
Flexible diaphragm-extreme temperature usage
[NASA-CASE-MSC-20797-2] c 35 N91-21494

FLEXIBLE BODIES
Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-NXP-08881] c 17 N71-28747
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199
High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560

FLEXIBLE WINGS
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038

FLEXING
Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492

FLIGHT
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692

FLIGHT ALTITUDE
Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211

Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

FLIGHT CLOTHING
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

FLIGHT CONTROL
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
Two-axis controller Patent
[NASA-CASE-FRC-04104] c 03 N70-42073
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120
Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140

FLIGHT CREWS
Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285

FLIGHT INSTRUMENTS
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678

FLIGHT PATHS
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384

FLIGHT RECORDERS
Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006

FLIGHT SAFETY
Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641

FLIGHT SIMULATION
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713

FLIGHT SIMULATORS
Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597

Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280

Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083

Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228

Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185

Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829

Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212

Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304

Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990

Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447

FLIGHT TESTS
Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386

FLIGHT TRAINING
Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990

FLIGHT VEHICLES
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497

Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326

FLIP-FLOPS
AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910

Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772

Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547

FLOAT ZONES
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879

Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545

Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499

FLOATING
Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472

Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845

Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653

FLOATS
Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820

FLOORS
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918

FLOTATION
Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748

FLOW CHAMBERS
Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337

Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845

FLOW CHARACTERISTICS
Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N91-28135

FLOW DIRECTION INDICATORS
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271

Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864

Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

FLOW DISTORTION
Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845

FLOW DISTRIBUTION

Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10206] c 15 N70-10867

Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366

Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815

Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783

Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190

Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573

High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132

Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563

Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596

FLOW MEASUREMENT

Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257

Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365

Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415

Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503

Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454

Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359

Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402

Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504

Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577

Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752

Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697

Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669

Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350

Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759

Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168

Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340

Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658

Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008

Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N92-10609

FLOW REGULATORS

Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260

Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608

Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967

Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661

Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615

Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213

Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147

Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462

Pressure modulating valve
[NASA-CASE-MSC-14905-1] c 37 N77-28487

Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545

Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468

Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419

Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577

Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071

Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845

Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703

Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423

Variable orifice flow regulator
[NASA-CASE-MSC-21549-1] c 34 N91-27504

FLOW RESISTANCE

Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783

FLOW STABILITY

Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983

Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730

Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504

FLOW VELOCITY

Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367

Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330

Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582

Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994

Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226

Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074

Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828

Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546

Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432

Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199

Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415

Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730

Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969

Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447

System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345

Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359

Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088

Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N91-16999

Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N91-28135

Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N92-21588

FLOW VISUALIZATION

Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896

Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815

Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

Method for laminar boundary layer transition visualization in flight
 [NASA-CASE-LAR-13554-1] c 02 N89-12551
 Dual wavelength holographic interferometry system
 [NASA-CASE-MFS-28242-1] c 35 N89-26202
 Multi-colored layers for visualizing aerodynamic flow effects
 [NASA-CASE-LAR-13742-1] c 02 N91-16999
 Synchronous strobe apparatus for flow visualization
 [NASA-CASE-LAR-14556-1] c 36 N91-25392
 Schlieren system for visualizing the flow within a pipe of circular cross-section
 [NASA-CASE-LAR-13944-1] c 35 N92-11336
 Multi-colored layers for visualizing aerodynamic flow effects
 [NASA-CASE-LAR-13742-1] c 02 N92-21588

FLOWMETERS

Flow test device
 [NASA-CASE-XMS-04917] c 14 N69-24257
 Positive displacement flowmeter Patent
 [NASA-CASE-XMF-02822] c 14 N70-41994
 Heated element fluid flow sensor Patent
 [NASA-CASE-MSC-12084-1] c 12 N71-17569
 Laser Doppler system for measuring three dimensional vector velocity Patent
 [NASA-CASE-MFS-20386] c 21 N71-19212
 Zeta potential flowmeter Patent
 [NASA-CASE-XNP-06509] c 14 N71-23226
 Traversing probe Patent
 [NASA-CASE-XFR-02007] c 12 N71-24692
 Laser fluid velocity detector Patent
 [NASA-CASE-XAC-10770-1] c 16 N71-24828
 Gas low pressure low flow rate metering system Patent
 [NASA-CASE-FRC-10022] c 12 N71-26546
 Nuclear mass flowmeter
 [NASA-CASE-MFS-20485] c 14 N72-11365
 Respiratory analysis system and method
 [NASA-CASE-MSC-13436-1] c 05 N73-32015
 Low power electromagnetic flowmeter providing accurate zero set
 [NASA-CASE-ARC-10362-1] c 14 N73-32326
 Electromagnetic flow rate meter --- for liquid metals
 [NASA-CASE-LEW-10981-1] c 35 N74-21018
 Leak detector
 [NASA-CASE-MFS-21761-1] c 35 N75-15931
 System for measuring three fluctuating velocity components in a turbulently flowing fluid
 [NASA-CASE-ARC-10974-1] c 34 N77-27345
 Automatic flowmeter calibration system
 [NASA-CASE-KSC-11076-1] c 34 N81-26402
 Miniature electrooptical air flow sensor
 [NASA-CASE-LAR-13065-1] c 35 N85-20295
 State-of-charge coulometer
 [NASA-CASE-NPO-15759-1] c 35 N85-21596
 Technique for measuring gas conversion factors
 [NASA-CASE-LAR-13220-1] c 34 N86-12547
 Fluid flow meter for measuring the rate of fluid flow in a conduit
 [NASA-CASE-MFS-28030-1] c 35 N86-25752
 Crossflow vorticity sensor
 [NASA-CASE-LAR-13436-1-CU] c 02 N88-23759

FLUID AMPLIFIERS

Fluid jet amplifier
 [NASA-CASE-XLE-03512] c 12 N69-21466
 Multiway vortex valve system Patent
 [NASA-CASE-XMF-04709] c 15 N71-15609
 Shear modulated fluid amplifier Patent
 [NASA-CASE-MFS-10412] c 12 N71-17578
 Rocket thrust throttling system
 [NASA-CASE-LEW-10374-1] c 28 N73-13773
 Fluid pressure amplifier and system
 [NASA-CASE-LAR-10868-1] c 33 N74-11050
 Fluid thrust control system --- for liquid propellant rocket engines
 [NASA-CASE-XMF-05964-1] c 20 N79-21124

FLUID DYNAMICS

Degassifying and mixing apparatus for liquids --- potable water for spacecraft
 [NASA-CASE-MSC-18936-1] c 35 N83-29652

FLUID FILLED SHELLS

Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
 [NASA-CASE-NPO-14596-3] c 31 N83-31896

FLUID FILMS

Journal bearings --- for lubricant films
 [NASA-CASE-LEW-11076-1] c 37 N74-21061
 Fluid journal bearings
 [NASA-CASE-LEW-11076-4] c 37 N76-15461
 Fluid seal for rotating shafts
 [NASA-CASE-LEW-11676-1] c 37 N76-22541

FLUID FILTERS

Liquid-gas separator for zero gravity environment Patent
 [NASA-CASE-XMS-01492] c 05 N70-41297

High pressure filter Patent
 [NASA-CASE-XNP-00732] c 28 N70-41447
 Water separating system Patent
 [NASA-CASE-XMS-13052] c 14 N71-20427
 Fluid control apparatus and method
 [NASA-CASE-LAR-11110-1] c 34 N75-26282
 Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
 [NASA-CASE-MSC-14273-1] c 34 N75-33342
 Quick disconnect filter coupling
 [NASA-CASE-MFS-22323-1] c 37 N76-14463
 Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
 [NASA-CASE-MSC-16841-1] c 34 N79-24285
 Air removal device --- life support systems
 [NASA-CASE-XLA-08914-2] c 25 N82-21269
 Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
 [NASA-CASE-GSC-12158-1] c 51 N83-27569

FLUID FLOW

Fluid jet amplifier
 [NASA-CASE-XLE-03512] c 12 N69-21466
 Pneumatic system for controlling and actuating pneumatic cyclic devices
 [NASA-CASE-XMS-04843] c 03 N69-21469
 Full flow with shut off and selective drainage control valve Patent application
 [NASA-CASE-ERC-10208] c 15 N70-10867
 Conical valve plug Patent
 [NASA-CASE-XLE-00715] c 15 N70-34859
 Pressure regulating system Patent
 [NASA-CASE-XNP-00450] c 15 N70-38603
 Antiflutter ball check valve Patent
 [NASA-CASE-XNP-01152] c 15 N70-41811
 Inductive liquid level detection system Patent
 [NASA-CASE-XLE-01609] c 14 N71-10500
 Multiway vortex valve system Patent
 [NASA-CASE-XMF-04709] c 15 N71-15609
 Heated element fluid flow sensor Patent
 [NASA-CASE-MSC-12084-1] c 12 N71-17569
 Multiple orifice throttle valve Patent
 [NASA-CASE-XNP-09698] c 15 N71-18580
 Fluid flow meter with comparator reference means Patent
 [NASA-CASE-XGS-01331] c 14 N71-22996
 Pressure transducer calibrator Patent
 [NASA-CASE-XNP-01660] c 14 N71-23036
 Dual latching solenoid valve Patent
 [NASA-CASE-XMS-05890] c 09 N71-23191
 Gas low pressure low flow rate metering system Patent
 [NASA-CASE-FRC-10022] c 12 N71-26546
 Electrohydrodynamic control valve Patent
 [NASA-CASE-NPO-10416] c 12 N71-27332
 Fluid jet amplifier Patent
 [NASA-CASE-XLE-09341] c 12 N71-28741
 Nuclear mass flowmeter
 [NASA-CASE-MFS-20485] c 14 N72-11365
 Flow rate switch
 [NASA-CASE-NPO-10722] c 09 N72-20199
 Torsional disconnect unit
 [NASA-CASE-NPO-10704] c 15 N72-20445
 Capacitive tank gaging apparatus being independent of liquid distribution
 [NASA-CASE-MFS-21629] c 14 N72-22442
 Cryogenic feedthrough
 [NASA-CASE-LAR-10031] c 15 N72-22484
 Geysering inhibitor for vertical cryogenic transfer pipe
 [NASA-CASE-KSC-10615] c 15 N73-12486
 Pump for delivering heated fluids
 [NASA-CASE-NPO-11417] c 15 N73-24513
 Flow control valve --- for high temperature fluids
 [NASA-CASE-NPO-11951-1] c 37 N74-21065
 Apparatus for establishing flow of a fluid mass having a known velocity
 [NASA-CASE-MFS-21424-1] c 34 N74-27730
 Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
 [NASA-CASE-MFS-19193-1] c 37 N75-19686
 Flow measuring apparatus
 [NASA-CASE-LEW-12078-1] c 35 N75-30503
 Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
 [NASA-CASE-MSC-14273-1] c 34 N75-33342
 Combined dual scatter, local oscillator laser Doppler velocimeter
 [NASA-CASE-ARC-10642-1] c 36 N76-14447
 Externally supported internally stabilized flexible duct joint
 [NASA-CASE-MFS-19194-1] c 37 N76-14460
 Vortex generator for controlling the dispersion of effluents in a flowing liquid
 [NASA-CASE-LAR-12045-1] c 34 N77-24423

Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
 [NASA-CASE-ARC-10970-1] c 36 N77-25501
 Accumulator
 [NASA-CASE-MFS-19287-1] c 34 N77-30399
 Apparatus for measuring a sorbate dispersed in a fluid stream
 [NASA-CASE-ARC-10896-1] c 35 N78-19465
 Flow compensating pressure regulator
 [NASA-CASE-LEW-12718-1] c 34 N78-25351
 Fluid valve assembly
 [NASA-CASE-MSC-12731-1] c 37 N78-25426
 Positive isolation disconnect
 [NASA-CASE-MSC-16043-1] c 37 N79-11402
 Fluid velocity measuring device
 [NASA-CASE-LAR-11729-1] c 34 N79-12359
 Hot foil transducer skin friction sensor
 [NASA-CASE-LAR-12321-1] c 35 N82-24470
 Dual laser optical system and method for studying fluid flow
 [NASA-CASE-MFS-25315-1] c 36 N83-29680
 Flow modifying device
 [NASA-CASE-LEW-13562-2] c 07 N85-35195
 Fluid leak indicator
 [NASA-CASE-MSC-20783-1] c 35 N86-20756
 Fluid flow meter for measuring the rate of fluid flow in a conduit
 [NASA-CASE-MFS-28030-1] c 35 N86-25752
 Two-axis, self-nulling skin friction balance
 [NASA-CASE-LAR-13294-1] c 35 N86-32696
 Multi-path peristaltic pump
 [NASA-CASE-MSC-20907-1] c 37 N87-18818
 Dual motion valve with single motion input
 [NASA-CASE-MFS-28058-1] c 37 N87-21332
 Pressure measuring probe
 [NASA-CASE-LAR-13853-1] c 35 N89-14423
 Fluidic momentum controller
 [NASA-CASE-MSC-20906-2] c 35 N89-15379
 Dual wavelength holographic interferometry system
 [NASA-CASE-MFS-28242-1] c 35 N89-26202
 Apparatus for mixing solutions in low gravity environments
 [NASA-CASE-MFS-26047-1] c 29 N90-21209
 Heat exchanger with oscillating flow
 [NASA-CASE-LAR-14033-1] c 34 N90-27072
 Liquid sheet radiator apparatus
 [NASA-CASE-LEW-14295-1] c 31 N91-15424
 Multi-colored layers for visualizing aerodynamic flow effects
 [NASA-CASE-LAR-13742-1] c 02 N91-16999
 Reflection type skin friction meter
 [NASA-CASE-LAR-14520-1-SB] c 02 N92-10008
 Pulse thermal energy transport system
 [NASA-CASE-LEW-15235-1] c 34 N92-10167
 Mechanized fluid connector and assembly tool system with ball detents
 [NASA-CASE-MSC-21434-1] c 37 N92-10197
 Multi-colored layers for visualizing aerodynamic flow effects
 [NASA-CASE-LAR-13742-1] c 02 N92-21588

FLUID INJECTION

Apparatus for igniting solid propellants Patent
 [NASA-CASE-XLE-02027] c 28 N70-33375
 Method of igniting solid propellants Patent
 [NASA-CASE-XLE-01988] c 27 N71-15634
 Aerodynamic spike nozzle Patent
 [NASA-CASE-XGS-01143] c 31 N71-15647
 Process of forming particles in a cryogenic path Patent
 [NASA-CASE-NPO-10250] c 23 N71-16212
 Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
 [NASA-CASE-XMS-01905] c 12 N71-21089
 Tertiary flow injection thrust vectoring system Patent
 [NASA-CASE-MFS-20831] c 28 N71-29153
 Programmable physiological infusion
 [NASA-CASE-ARC-10447-1] c 52 N74-22771

FLUID JETS

Propeller blade loading control Patent
 [NASA-CASE-XAC-00139] c 02 N70-34856

FLUID LOGIC

Logic AND gate for fluid circuits Patent
 [NASA-CASE-XLA-07391] c 12 N71-17579

FLUID MANAGEMENT

Capillary heat transport and fluid management device
 [NASA-CASE-MFS-28217-1] c 34 N89-14392

FLUID MECHANICS

Leak detector Patent
 [NASA-CASE-LAR-10323-1] c 12 N71-17573
 Parallel-plate viscometer with double diaphragm suspension
 [NASA-CASE-NPO-11387] c 14 N73-14429
 Modified face seal for positive film stiffness
 [NASA-CASE-LEW-12989-1] c 37 N82-12442

FLUID POWER

- Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
- Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465

FLUID PRESSURE

- Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
- Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
- Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
- Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
- Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457
- Active control of pressure loads using passive porosity
[NASA-CASE-LAR-14594-1] c 34 N92-17888
- Passive control of pressure loads using porosity
[NASA-CASE-LAR-14547-1] c 34 N92-17909

FLUID ROTOR GYROSCOPES

- Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824

FLUID SWITCHING ELEMENTS

- Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155

FLUID TRANSMISSION LINES

- Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225

FLUIDIC CIRCUITS

- Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
- Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503

FLUIDICS

- Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
- Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
- Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
- Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
- Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
- Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-1CU] c 35 N86-32695
- Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072
- Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N91-28582

FLUIDIZED BED PROCESSORS

- Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
- Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
- Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
- Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
- Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

FLUIDS

- Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
- Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
- Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
- Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385
- Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595
- Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070
- Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380
- Adjustable steam producing flexible orifice independent of fluid pressure
[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724

FLUORESCENCE

- Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
- Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
- Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947

Fluorescence detector for monitoring atmospheric pollutants

- [NASA-CASE-NPO-12321-1] c 45 N75-27585
- Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
- Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
- Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N91-15368

FLUORIDES

- Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
- Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
- Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121
- Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
- Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320
- Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528
- Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N91-28425

FLUORINATION

- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
- Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
- Storing fluorine gas in carbon fibers and releasing the same
[NASA-CASE-LEW-15359-1] c 25 N92-17902

FLUORINE

- Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
- Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
- Storing fluorine gas in carbon fibers and releasing the same
[NASA-CASE-LEW-15359-1] c 25 N92-17902

FLUORINE COMPOUNDS

- Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
- Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185

FLUORINE ORGANIC COMPOUNDS

- Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N91-27220

FLUORO COMPOUNDS

- New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
- Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
- Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
- Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
- Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
- The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-6] c 23 N92-17882

FLUOROCARBONS

- Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404

FLUOROHYDROCARBONS

- New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141

FLUOROPOLYMERS

- Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
- Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
- Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
- Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
- Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
- Cellular thermosetting fluoroepoxide polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
- New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300

FLUTTER

- Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
- Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
- Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
- Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
- Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

FLUTTER ANALYSIS

- Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448

FLUX (RATE)

- Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
- Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575

FLUX DENSITY

- Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
- Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
- Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538

FLUXES

- Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078

FLYING PLATFORMS

- System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621

FLYWHEELS

- Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
- Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
- Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
- Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
- Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
- Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808

FOAMS

- Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
- Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
- Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816
- Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
- Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
- Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
- Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005

Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387

Polyimide foam for the thermal insulation and fire protection

[NASA-CASE-ARC-10464-1] c 27 N74-12812

Intumescent composition, foamed product prepared therewith and process for making same

[NASA-CASE-ARC-10304-2] c 27 N74-27037

Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles

[NASA-CASE-ARC-11008-1] c 27 N78-31232

Ambient cure polyimide foams --- thermal resistant foams

[NASA-CASE-ARC-11170-1] c 27 N79-11215

Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams

[NASA-CASE-ARC-11107-1] c 25 N80-16116

Impacting device for testing insulation

[NASA-CASE-MFS-25862-2] c 37 N84-33807

Insulation bonding test system

[NASA-CASE-MFS-25862-1] c 27 N85-20126

Cryogenic insulation strength and bond tester

[NASA-CASE-MFS-25910-1] c 39 N86-20841

Cellular thermosetting fluoropolymers and process for making them

[NASA-CASE-GSC-13008-1] c 27 N88-23894

Cellular thermosetting fluorodioxepoxide polymers

[NASA-CASE-GSC-13008-2] c 27 N90-16949

FOCAL PLANE DEVICES

Antenna array at focal plane of reflector with coupling network for beam switching Patent

[NASA-CASE-GSC-10220-1] c 07 N71-27233

High speed multi focal plane optical system

[NASA-CASE-GSC-12683-1] c 74 N83-36898

Focal plane array optical proximity sensor

[NASA-CASE-NPO-15155-1] c 74 N85-22139

Projection lens scanning laser velocimeter system

[NASA-CASE-ARC-11547-1] c 36 N87-17026

Laterally stacked Schottky diodes for infrared sensor applications

[NASA-CASE-NPO-17426-1-CU] c 33 N91-21434

FOCI

High speed multi focal plane optical system

[NASA-CASE-GSC-12683-1] c 74 N83-36898

FOCUSING

X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent

[NASA-CASE-XHQ-04106] c 14 N70-40240

Focussing system for an ion source having apertured electrodes Patent

[NASA-CASE-XNP-03332] c 09 N71-10618

Petzval type objective including field shaping lens Patent

[NASA-CASE-GSC-10700] c 23 N71-30027

Absolute focus lock for microscopes

[NASA-CASE-LAR-10184] c 14 N72-22445

Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube

[NASA-CASE-LEW-11617-1] c 33 N74-10195

Automatic focus control for facsimile cameras

[NASA-CASE-LAR-11213-1] c 35 N75-15014

Multiplate focusing collimator --- for scanning small near radiation sources

[NASA-CASE-MFS-20932-1] c 35 N75-19616

RF beam center location method and apparatus for power transmission system

[NASA-CASE-NPO-13821-1] c 44 N78-28594

Scanning afocal laser velocimeter projection lens system

[NASA-CASE-LAR-12328-1] c 36 N82-32712

Gyrottron transmitting tube

[NASA-CASE-LEW-13429-1] c 33 N83-31952

Dual mode laser velocimeter

[NASA-CASE-ARC-11634-1] c 36 N88-14350

Apparatus for precision focussing and positioning of a beam waist on a target

[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811

FOG

Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields

[NASA-CASE-MSC-13530-2] c 23 N75-14834

Environmental fog/rain visual display system for aircraft simulators

[NASA-CASE-ARC-11158-1] c 09 N82-24212

Warm fog dissipation using large volume water sprays

[NASA-CASE-MFS-25962-1] c 09 N89-25242

FOILS (MATERIALS)

Foil seal

[NASA-CASE-XLE-05130] c 15 N69-21362

Method of making an insulation foil

[NASA-CASE-LEW-11484-1] c 24 N75-33181

Partial interlaminar separation system for composites

[NASA-CASE-LAR-12065-1] c 24 N81-14000

Method of making a partial interlaminar separation composite system

[NASA-CASE-LAR-12065-2] c 24 N81-33235

Oxygen diffusion barrier coating

[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

FOLDING

Folding apparatus Patent

[NASA-CASE-XLA-00137] c 15 N70-33180

FOLDING STRUCTURES

Space and atmospheric reentry vehicle Patent

[NASA-CASE-XGS-00260] c 31 N70-37924

Collapsible loop antenna for space vehicle Patent

[NASA-CASE-XMF-00437] c 07 N70-40202

Folding boom assembly Patent

[NASA-CASE-XGS-00938] c 32 N70-41367

Foldable conduit Patent

[NASA-CASE-XLE-00620] c 32 N70-41579

Foldable solar concentrator Patent

[NASA-CASE-XLA-04622] c 03 N70-41580

Wing deployment method and apparatus Patent

[NASA-CASE-XMS-00907] c 02 N70-41630

Variable sweep aircraft Patent

[NASA-CASE-XLA-03659] c 02 N71-11041

Radiator deployment actuator Patent

[NASA-CASE-MSC-11817-1] c 15 N71-26611

Foldable construction block

[NASA-CASE-MSC-12233-1] c 15 N72-25454

Folding structure fabricated of rigid panels

[NASA-CASE-XHQ-02146] c 18 N75-27040

Collapsible corrugated horn antenna

[NASA-CASE-LAR-11745-1] c 32 N80-29539

Foldable beam

[NASA-CASE-LAR-12077-1] c 31 N81-25259

Telescoping columns --- parabolic antenna support

[NASA-CASE-LAR-12195-1] c 31 N81-27324

Sequentially deployable maneuverable tetrahedral beam

[NASA-CASE-LAR-13098-1] c 31 N86-19479

Self-locking telescoping manipulator arm

[NASA-CASE-MFS-25906-1] c 37 N86-20789

Shuttle-launch triangular space station

[NASA-CASE-MSC-20676-1] c 18 N86-24729

Synchronously deployable truss structure

[NASA-CASE-LAR-13117-1] c 37 N86-25789

Protective telescoping shield for solar concentrator

[NASA-CASE-NPO-16236-1] c 44 N86-27706

Deployable M-braced truss structure

[NASA-CASE-LAR-13081-1] c 37 N86-32737

Foldable self-erecting joint

[NASA-CASE-MSC-20635-1] c 18 N87-14373

Sun shield

[NASA-CASE-MSC-20162-1] c 37 N87-17036

Deployable geodesic truss structure

[NASA-CASE-LAR-13113-1] c 31 N87-25492

Shuttle orbiter with telescoping main propulsion unit and payload

[NASA-CASE-LAR-13586-1] c 16 N92-10035

FOOD

Bacteria detection instrument and method

[NASA-CASE-GSC-11533-1] c 14 N73-13435

FOOTPRINTS

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths

[NASA-CASE-NPO-14525-2] c 32 N83-31918

FORCE

Ferrofluidic solenoid

[NASA-CASE-NPO-11738-1] c 09 N73-30185

FORCE DISTRIBUTION

Device for handling heavy loads

[NASA-CASE-XNP-04969] c 11 N69-27466

Two force component measuring device Patent

[NASA-CASE-XAC-04886-1] c 14 N71-20439

Tensile strength testing device Patent

[NASA-CASE-XNP-05634] c 15 N71-24834

Impact monitoring apparatus

[NASA-CASE-MSC-15626-1] c 14 N72-25411

Variable direction force coupler

[NASA-CASE-MFS-20317] c 15 N73-13463

Subminiature insertable force transducer --- including a strain gage to measure forces in muscles

[NASA-CASE-NPO-13423-1] c 33 N75-31329

Device for quick changeover between wind tunnel force and pressure testing

[NASA-CASE-LAR-13512-1] c 35 N87-28884

Linear force device

[NASA-CASE-MSC-20549-2] c 35 N88-24927

FORCED VIBRATION

Seismic vibration source

[NASA-CASE-NPO-14112-1] c 46 N79-22679

FOREBODIES

Aerodynamic side-force alleviator means

[NASA-CASE-LAR-12326-1] c 02 N81-14968

Actuated forebody strakes

[NASA-CASE-LAR-13983-1] c 05 N90-23390

FORMALDEHYDE

Synthesis of polyformals

[NASA-CASE-ARC-11244-1] c 23 N82-16174

Synthesis of 2,4,8,10-tetroxaspiro[5.5]undecane

[NASA-CASE-ARC-11243-2] c 23 N85-33187

FORMAT

Digital data reformatter/deserializer

[NASA-CASE-NPO-13676-1] c 60 N79-20751

FORMATES

Fluorine containing polyurethane

[NASA-CASE-MFS-10509] c 06 N73-30103

FORMING TECHNIQUES

Wire grid forming apparatus Patent

[NASA-CASE-XLE-00023] c 15 N70-33330

Method for forming plastic materials Patent

[NASA-CASE-XMS-05516] c 15 N71-17803

Method of making tubes Patent

[NASA-CASE-XGS-04175] c 15 N71-18579

Magnetomotive metal working device Patent

[NASA-CASE-XMF-03793] c 15 N71-24833

Apparatus for making curved reflectors Patent

[NASA-CASE-XLE-08917-2] c 15 N71-24836

Method of forming shapes from planar sheets of thermosetting materials

[NASA-CASE-NPO-11036] c 15 N72-24522

Method of heat treating a formed powder product material

[NASA-CASE-LEW-10805-3] c 26 N74-10521

Molding apparatus --- for thermosetting plastic compositions

[NASA-CASE-LAR-10489-2] c 31 N74-32920

Process for making sheets with parallel pores of uniform size

[NASA-CASE-GSC-10984-1] c 37 N75-26371

Drilled ball bearing with a one piece anti-tipping cage assembly

[NASA-CASE-LEW-11925-1] c 37 N75-31446

Apparatus for forming dished ion thruster grids

[NASA-CASE-LEW-11694-2] c 37 N76-14461

Acoustic energy shaping

[NASA-CASE-NPO-13802-1] c 71 N78-10837

Method of forming metal hydride films

[NASA-CASE-LEW-12083-1] c 37 N78-13436

Method of producing complex aluminum alloy parts of high temper, and products thereof

[NASA-CASE-MSC-19693-1] c 26 N78-24333

Solar cell with improved N-region contact and method of forming the same

[NASA-CASE-NPO-14205-1] c 44 N79-31752

Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets

[NASA-CASE-NPO-14596-1] c 31 N81-33319

Precision heat forming of tetrafluoroethylene tubing

[NASA-CASE-MSC-18430-1] c 37 N82-24491

Sphere forming method and apparatus

[NASA-CASE-NPO-15070-1] c 31 N83-35176

Method of fabricating composite structures

[NASA-CASE-MFS-28390-1] c 24 N91-15333

FOSSIL FUELS

Supercritical solvent coal extraction

[NASA-CASE-NPO-15210-1] c 25 N84-22709

FOUNDATIONS

Expandable support means

[NASA-CASE-NPO-11059] c 15 N72-17454

Adjustable securing base

[NASA-CASE-MSC-19666-1] c 37 N78-17383

Space station erectable manipulator placement system

[NASA-CASE-MSC-21096-1] c 18 N89-12621

FOURIER TRANSFORMATION

Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components

[NASA-CASE-ARC-10466-1] c 60 N75-13539

Remotely controllable real-time optical processor

[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078

FRACTIONATION

Method and apparatus for distillation of liquids

SUBJECT INDEX

Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540

FRAMES
Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096
Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471

FRAMING CAMERAS
High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411

FREE FLIGHT TEST APPARATUS
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926

FREE WING AIRCRAFT
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061

FREEZE DRYING
Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096

FREEZING
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442

FREON
Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c 44 N75-32581

FREQUENCIES
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
High efficiency multirfrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

FREQUENCY ANALYZERS
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315
Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N91-14607

FREQUENCY CONTROL
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000

Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

FREQUENCY CONVERTERS
Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874

FREQUENCY DISCRIMINATORS
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966

FREQUENCY DISTRIBUTION
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-10125

FREQUENCY DIVIDERS
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354

FREQUENCY DIVISION MULTIPLEXING
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176

FREQUENCY MEASUREMENT
Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
Edge technique for measurement of laser frequency shifts including the Doppler shift
[NASA-CASE-GSC-13343-1] c 36 N91-28557
Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182

FREQUENCY MODULATION
Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281

FREQUENCY STABILITY

Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N91-27957

FREQUENCY MULTIPLIERS
Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375
Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551

FREQUENCY RANGES
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384
Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-10125

FREQUENCY SCANNING
Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

FREQUENCY SHIFT
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Serrordyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321
Edge technique for measurement of laser frequency shifts including the Doppler shift
[NASA-CASE-GSC-13343-1] c 36 N91-28557

FREQUENCY SHIFT KEYING
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863

FREQUENCY STABILITY
Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614

Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331

Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005

Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

FREQUENCY STANDARDS

Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099

Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436

Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362

Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186

Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

FREQUENCY SYNCHRONIZATION

Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084

Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296

FREQUENCY SYNTHESIZERS

Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525

System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296

Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443

Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145

JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515

FRICTION

Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371

Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N91-16999

Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N91-17401

Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492

Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N92-21588

FRICTION DRAG

Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071

FRICTION FACTOR

Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984

Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492

Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N91-32511

Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514

Magnetostriuctive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N92-15331

FRICTION MEASUREMENT

Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995

Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489

Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696

Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008

FRICTION REDUCTION

Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978

Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383

Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071

Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558

FRICTIONLESS ENVIRONMENTS

Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617

Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689

Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223

FROST

Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323

Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018

FROZEN FOODS

Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817

FRUSTUMS

Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N91-23491

Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726

FUEL CAPSULES

Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846

FUEL CELL POWER PLANTS

Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403

FUEL CELLS

Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337

Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904

Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022

Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044

Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204

Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513

Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734

Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403

FUEL COMBUSTION

Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224

Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

FUEL CONSUMPTION

Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

Method for providing real-time control of a gaseous propellant rocket propulsion system
[NASA-CASE-MSC-21542-1] c 20 N92-15122

FUEL CONTROL

Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539

Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103

Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106

Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654

Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432

Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793

Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545

Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483

Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

FUEL FLOW

System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772

FUEL FLOW REGULATORS

Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192

Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044

Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106

FUEL GAGES

Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134

FUEL INJECTION

Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535

Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199

Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660

Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843

Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406

Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129

Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420

Method of injecting fluid propellants into a rocket combustion chamber
[NASA-CASE-LEW-14846-2] c 20 N91-26200

Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N92-10054

FUEL OILS

Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106

FUEL PUMPS

Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MSC-12139-1] c 28 N71-14058

FUEL SYSTEMS

Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781

System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772

Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502

Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224

Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403

Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129

Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029

Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N92-10054

FUEL TANK PRESSURIZATION

Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247

Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042

Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929

FUEL TANKS

Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988

Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103

Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106

Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387

Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186

High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610

Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841

Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741

Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511

Tank gauging apparatus and method
[NASA-CASE-MSC-21059-3] c 35 N91-21495

FUEL VALVES
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426

FUEL-AIR RATIO
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

FUELS
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

FUNCTION GENERATORS
Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230
A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510

FURLABLE ANTENNAS
Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
Singly-curved reflector for use in high-gain antennas
[NASA-CASE-NPO-11361] c 07 N72-32169
Furlable antenna --- antenna design
[NASA-CASE-NPO-13553-1] c 33 N76-32457

FURNACES
High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
Apparatus and method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896
High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N91-27175

FUSELAGES
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809

FUSION (MELTING)
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

FUSION WELDING
Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128

FUZZY SYSTEMS
Reconfigurable fuzzy cell
[NASA-CASE-MSC-21613-1] c 61 N92-10331

G

GADOLINIUM
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292

GALILEO PROJECT
Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591

GALLIUM
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790

GALLIUM ARSENIDES
GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-17675

GALLIUM PHOSPHIDES
Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884

GALVANIC SKIN RESPONSE
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293

GAMMA RAY SPECTROMETERS
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

GAMMA RAYS
Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392

Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515

GANTRY CRANES
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021

GAPS
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
Thermally activated retainer means
[NASA-CASE-MSC-21793-1] c 16 N91-28186

GARMENTS
Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002

GAS ANALYSIS
Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002
Device for quickly sensing the amount of O₂ in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025
Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N91-14587

GAS BAGS
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

GAS BEARINGS
Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620

Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465
Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
Air bearing assembly for curved surfaces
[NASA-CASE-MFS-20423] c 15 N72-11388
Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17451
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588
Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

GAS CHROMATOGRAPHY

Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
Ultraviolet atomic emission detector
[NASA-CASE-HON-10756-1] c 14 N72-25428
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383

GAS COMPOSITION

Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

GAS COOLED REACTORS

Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759

GAS COOLING

Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

GAS DENSITY

Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958

Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N92-10609

GAS DETECTORS

Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691

GAS DISCHARGE TUBES

Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693

GAS DISCHARGES

Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961
Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258

GAS EVOLUTION

Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185

GAS EXPANSION

Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
Gas operated actuator
[NASA-CASE-NPO-11340] c 15 N72-33477
Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203

GAS FLOW

Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245
Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
Pressurized lighting system
[NASA-CASE-KSC-10544] c 09 N72-27227
Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127

Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-3] c 35 N91-21495
Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N91-25335
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241

GAS GENERATORS

Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467
Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c 44 N76-18642
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636

GAS GUNS

Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628

GAS HEATING

Bi-metallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126

GAS INJECTION

Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595

GAS IONIZATION

Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795

GAS JETS

Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

GAS LASERS

- Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
- Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
- Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
- Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
- Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
- Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
- Spectrophotometer stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
- Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

GAS LUBRICANTS

- Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897
- Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588
- Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
- Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490

GAS MASERS

- Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578
- Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
- Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
- Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436

GAS MIXTURES

- Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
- Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
- Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
- Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
- Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636
- Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
- Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203

GAS PIPES

- Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
- Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602

GAS PRESSURE

- Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
- Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
- Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
- Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
- Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
- Pressure limiting propellant actuating system
[NASA-CASE-MS-C-18179-1] c 20 N80-18097
- Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
- Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N91-25335
- Pressure vessel flex joint
[NASA-CASE-MS-C-21748-1] c 37 N91-25415
- Pressure vessel flex joint
[NASA-CASE-MS-C-21748-1] c 37 N92-21727

GAS STREAMS

- Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074

- Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
- Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
- Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MS-C-16258-1] c 45 N79-12584
- Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828

GAS TEMPERATURE

- Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074

GAS TRANSPORT

- Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238

GAS TUBES

- Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550

GAS TUNGSTEN ARC WELDING

- Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586
- Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168

GAS TURBINE ENGINES

- Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
- Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
- Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
- Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
- Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
- Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
- Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
- Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
- Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
- Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
- Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
- Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
- Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
- Independent power generator
[NASA-CASE-LAR-11208-1] c 44 N78-32539
- Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
- Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
- Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
- Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
- Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
- Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
- Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
- Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
- Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
- Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
- Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
- Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
- Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
- Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
- Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

- Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
- Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978

GAS TURBINES

- Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
- Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
- Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
- Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
- Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
- Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
- Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
- Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- Multi-heat addition turbine engine
[NASA-CASE-LEW-15094-1] c 07 N91-23180

GAS VALVES

- High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
- Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
- Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407
- Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
- Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MS-C-20112-1] c 37 N85-20338
- Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024

GAS WELDING

- Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
- Grain refinement control in TIG arc welding
[NASA-CASE-MS-C-19095-1] c 37 N75-19683

GAS-LIQUID INTERACTIONS

- Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282

GAS-METAL INTERACTIONS

- Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
- Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415

GASDYNAMIC LASERS

- Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

GASEOUS DIFFUSION

- Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
- Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
- Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
- Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250

GASEOUS FISSION REACTORS

- Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759

GASEOUS ROCKET PROPELLANTS

- Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
- Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983

GASES

- Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265
- Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
- Low gravity phase separator
[NASA-CASE-MS-C-14773-1] c 35 N78-12390
- Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
- System for venting gas from a liquid storage tank
[NASA-CASE-MS-C-21253-1] c 31 N90-20254

Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243

GASIFICATION
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950

GASKETS
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N91-21175

GATES (CIRCUITS)
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579
Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N91-13888

GATES (OPENINGS)
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935

GAW-1 AIRFOIL
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154

GEAR TEETH
Wobble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385
Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717

GEARS
Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
Linear force device
[NASA-CASE-MSC-20549-2] c 35 N88-24927

GELATION
Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539

GELLED ROCKET PROPELLANTS

Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212

GELS

Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562
Production of mullite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870

GENERAL AVIATION AIRCRAFT

Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

GENERATORS

Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

GENETIC ENGINEERING

Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

GEODESY

Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681

GEODETIC SURVEYS

Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344

GEODIMETERS

Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344

GEOLOGICAL SURVEYS

Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709
Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906

GEOMETRY

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384

GERMANIUM

Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066

GERMANIUM ALLOYS

Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884

GIMBALS

Gimballed, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

GLANDS (SEALS)

Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488

Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447

GLASS

Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
Method of preparing a thermal barrier coating
[NASA-CASE-LEW-14999-2] c 27 N91-26376
Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614

GLASS COATINGS

Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448

GLASS ELECTRODES

Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

GLASS FIBER REINFORCED PLASTICS

Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163

GLASS FIBERS

Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452

Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262

Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718

Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111

GLASSWARE
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751

GLAUCOMA
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684

GLIDE LANDINGS
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481

GLIDE PATHS
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930

GLOBAL POSITIONING SYSTEM
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546

High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1CU] c 04 N86-27270

Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016

System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621

GLOBES
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

GLOVES
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080

Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677

Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113

Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484

Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

GLOW DISCHARGES
Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270

Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233

Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245

Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

GLUCOSE
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

GLYCOLS
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

GOLD COATINGS
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191

Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

GONDOLAS
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008

GRADIENTS
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

GRANULAR MATERIALS
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440

Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597

GRAPHITE
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735

Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135

Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215

Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950

Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489

Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131

Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623

Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289

Intercalated hybrid graphite fiber composite
[NASA-CASE-LEW-15241-1] c 24 N92-17861

GRAPHITE-EPOXY COMPOSITES
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000

Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491

GRAPHITIZATION
Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320

Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N92-10090

Storing fluorine gas in carbon fibers and releasing the same
[NASA-CASE-LEW-15359-1] c 25 N92-17902

GRATINGS (SPECTRA)
Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003

Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140

Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768

Control system for ruling blazed; aberration corrected diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N92-10186

GRAVIMETERS
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587

GRAVITATION
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397

Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789

GRAVITATIONAL CONSTANT
Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196

GRAVITATIONAL EFFECTS
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619

Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503

Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803

Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629

GRAVITATIONAL FIELDS
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537

Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N91-13860

GRAVITY GRADIENT SATELLITES
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729

Station keeping of a gravity gradient stabilized satellite
[NASA-CASE-XLA-03132] c 31 N71-22969

GRAVITY GRADIOMETERS
Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196

Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

GRAZING INCIDENCE
Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140

Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

GRAZING INCIDENCE TELESCOPES
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

GREENHOUSES
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803

GRIDS
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310

Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461

Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276

Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666

GRINDING (MATERIAL REMOVAL)
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400

Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448

Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

GRINDING MACHINES
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

GROOVES
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877

Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474

Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125

Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180

Nozzle fabrication technique
[NASA-CASE-MSC-21299-2] c 37 N91-32508

GROUND EFFECT (COMMUNICATIONS)
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

GROUND EFFECT MACHINES
Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039

Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689

Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672

GROUND HANDLING
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383

GROUND STATE
Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

GROUND STATIONS
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287

Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118

Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

GROUND SUPPORT EQUIPMENT
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391

Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043

Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296

GROUND-AIR-GROUND COMMUNICATION
Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491

Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930

Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173

Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

GROUT
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043

GUANIDINES
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122

GUARDS (SHIELDS)

Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602

GUIDANCE (MOTION)

Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

GUIDANCE SENSORS

Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769

GUN LAUNCHERS

Self-obturator, gas operated launcher
[NASA-CASE-NPO-11013] c 11 N72-22247

GUN PROPELLANTS

Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

GUNN EFFECT

Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235

GUNS

Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454

GUNS (ORDNANCE)

Ignitability test method and apparatus
[NASA-CASE-LAR-14454-1] c 25 N91-32196

GYNECOLOGY

Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

GYRATORS

Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428

GYROSCOPES

Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399

GYROSCOPIC PENDULUMS

Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

GYROSTABILIZERS

Passive dual spin misalignment compensators --- gyrostabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

H

HABITATS

Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803

HAFNIUM

Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584

HALIDES

Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643

HALL EFFECT

Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

HALL GENERATORS

Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037

HALOGENS

Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739

HAMMERS

Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446

HAND (ANATOMY)

Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785
Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652

HANDLES

Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154

HANDLING EQUIPMENT

Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

HARDENING (MATERIALS)

Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236

HARDNESS

Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153

HARMONIC GENERATIONS

Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551

HARMONIC GENERATORS

Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223

HARNESSES

Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915

HATCHES

Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
Hatch cover
[NASA-CASE-MSC-21356-1] c 18 N90-19278
Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542

HAZARDS

Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

HEAD-UP DISPLAYS

Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733

HEART

Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1] c 35 N91-13686

HEART FUNCTION

Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726

HEART RATE

Digital cardiometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Digital computing cardiometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969

HEAT

Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599

HEAT EXCHANGERS

Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374
Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573
Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867
High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072
Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457

HEAT FLUX

- Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
- Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
- Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
- Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072
- Method of producing a plug type heat flux gauge
[NASA-CASE-LEW-14967-2] c 35 N91-23460
- Plug-type heat flux gauge
[NASA-CASE-LEW-14967-1] c 35 N91-31608
- Method of producing a plug-type heat flux gauge
[NASA-CASE-LEW-14967-2] c 35 N92-22038

HEAT MEASUREMENT

- Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
- Specific wavelength colorimeter --- for measuring given solute concentration in test sample
[NASA-CASE-MSC-14081-1] c 35 N74-27860
- Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002

HEAT OF COMBUSTION

- Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002

HEAT OF VAPORIZATION

- Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950

HEAT PIPES

- Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
- Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
- Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
- Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
- Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
- Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379
- Heat pipe with dual working fluids
[NASA-CASE-ARC-10198] c 34 N78-17336
- Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
- Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
- High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399
- Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
- Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
- Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
- Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
- High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
- Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N86-27593
- Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867
- Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586
- Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
- Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
- Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541
- Heat tube device
[NASA-CASE-KSC-11395-1-CU] c 34 N91-21473
- Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N91-23617
- HEAT PUMPS**
- Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
- Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084
- Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
- Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
- Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114

- Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
- Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541
- Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587
- HEAT RADIATORS**
- Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
- Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
- Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026
- Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586
- Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N91-25296
- Lunar radiator shade
[NASA-CASE-MSC-21868-1] c 54 N92-11639
- Lunar radiator shade
[NASA-CASE-MSC-21868-1] c 54 N92-21589

HEAT RESISTANT ALLOYS

- High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
- Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
- Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
- Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465
- Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
- Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c 37 N74-13179
- Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
- Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
- Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
- Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
- Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
- Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
- Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
- Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
- Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647
- Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
- Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462
- Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N91-23491
- Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726

HEAT SHIELDING

- Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
- Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
- Heat shield Patent
[NASA-CASE-XMS-00486] c 33 N70-33344
- Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
- Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631
- Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
- Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
- Synthesis of polymeric Schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
- Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
- Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145

- Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
- Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
- Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
- Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
- Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
- Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
- Multilayer thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
- High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
- Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335

HEAT SINKS

- Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
- Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
- Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
- Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
- Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
- Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
- Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
- Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
- Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785
- High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489
- Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286

HEAT SOURCES

- Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
- Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031
- Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
- Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163
- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214
- High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415

HEAT STORAGE

- Solar energy trap
[NASA-CASE-MFS-22744-1] c 44 N76-24696
- Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
- Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
- Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474
- Pulse thermal energy transport system
[NASA-CASE-LEW-15235-1] c 34 N92-10167

HEAT TRANSFER

- Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
- Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
- Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
- Method of improving heat transfer characteristics in a nucleate boiling process Patent
[NASA-CASE-XMS-04268] c 33 N71-16277
- Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
- Heat sensing instrument Patent
[NASA-CASE-XLA-01551] c 14 N71-22989
- Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
- Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052

- Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026
- Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084
- High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
- Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
- Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
- Thermal flux transfer system
[NASA-CASE-NPO-12070-1] c 28 N73-32606
- Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818
- Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
- Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463
- Heat pipe with dual working fluids
[NASA-CASE-ARC-10198] c 34 N78-17336
- Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
- Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
- Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368
- Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
- Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
- Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
- Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
- High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
- Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
- Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
- Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-2] c 34 N88-23958
- Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544
- Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999
- Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
- Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072
- Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
- Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
- Heat tube device
[NASA-CASE-KSC-11395-1-CU] c 34 N91-21473
- Multi-heat addition turbine engine
[NASA-CASE-LEW-15094-1] c 07 N91-23180
- Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N91-23617
- Heat transfer device
[NASA-CASE-LEW-14162-2] c 24 N91-25201
- Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385
- Pulse thermal energy transfer system
[NASA-CASE-LEW-15235-1] c 34 N92-10167
- HEAT TRANSMISSION**
- Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
- Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
- Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
- HEAT TREATMENT**
- High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
- Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
- Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
- Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
- Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
- Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487
- Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
- Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
- Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
- Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
- Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
- Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
- Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
- Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- Active hold-down for heat treating
[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704
- Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647
- Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
- Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
- Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
- Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014
- Low toxicity high temperature PMR polyimides
[NASA-CASE-LAR-14639-1] c 27 N92-11199
- HEATERS**
- Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
- HEATING**
- System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
- Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128
- Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214
- Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
- Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
- Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
- Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587
- Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N91-27175
- Storing fluorine gas in carbon fibers and releasing the same
[NASA-CASE-LEW-15359-1] c 25 N92-17902
- HEATING EQUIPMENT**
- Method and apparatus for controllably heating fluid
[NASA-CASE-XMF-04237] c 33 N71-16278
- Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
- Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
- Self-cycling fluid heater
[NASA-CASE-MSC-15567-1] c 33 N73-16918
- Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
- Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
- Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
- Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556
- Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562
- HEIGHT**
- Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
- HELICAL ANTENNAS**
- Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
- Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117
- HELICAL WINDINGS**
- High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043
- HELICOPTER CONTROL**
- Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809
- HELICOPTER DESIGN**
- Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809
- HELICOPTER WAKES**
- Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018
- HELICOPTERS**
- Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
- Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515
- Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847
- Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
- Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631
- High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224
- Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113
- HELIOSTATS**
- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- HELIUM**
- Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946
- High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044
- Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
- Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
- Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
- Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
- HELIUM HYDROGEN ATMOSPHERES**
- Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
- HELIUM IONS**
- Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
- HELIUM-NEON LASERS**
- Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
- Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
- Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388
- HELMET MOUNTED DISPLAYS**
- EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879
- HELMETS**
- Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
- Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
- Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
- Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
- Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679

Helmet feedport
 [NASA-CASE-XMS-09653] c 54 N78-17680
 Emergency space-suit helmet
 [NASA-CASE-MS-10954-1] c 54 N78-18761
 Helmet weight simulator
 [NASA-CASE-LAR-12320-1] c 54 N81-27806
 Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
 [NASA-CASE-MS-21503-1] c 27 N92-10091
HELMHOLTZ RESONATORS
 Acoustic ground impedance meter
 [NASA-CASE-LAR-12995-1] c 35 N84-22933
HEMISPHERICAL SHELLS
 Anti-glare improvement for optical imaging systems
 Patent
 [NASA-CASE-NPO-10337] c 14 N71-15604
HERMETIC SEALS
 Line cutter Patent
 [NASA-CASE-XMS-04072] c 15 N70-42017
 Hermetically sealed explosive release mechanism
 Patent
 [NASA-CASE-XGS-00824] c 15 N71-16078
 Traveling sealer for contoured table Patent
 [NASA-CASE-XLA-01494] c 15 N71-24164
 Method for detecting leaks in hermetically sealed containers Patent
 [NASA-CASE-ERC-10045] c 15 N71-24910
 Hermetic sealed vibration damper Patent
 [NASA-CASE-MS-10959] c 15 N71-26243
 Method of forming ceramic to metal seal Patent
 [NASA-CASE-XNP-01263-2] c 15 N71-26312
 Pressure seal Patent
 [NASA-CASE-NPO-10796] c 15 N71-27068
 Tube sealing device Patent
 [NASA-CASE-NPO-10431] c 15 N71-29132
 Hermetically sealed elbow actuator
 [NASA-CASE-MFS-14710] c 09 N72-22195
 Heat transfer device
 [NASA-CASE-NPO-11120-1] c 34 N74-18552
 Device for tensioning test specimens within an hermetically sealed chamber
 [NASA-CASE-MFS-23281-1] c 35 N77-22450
 Cooling system for removing metabolic heat from an hermetically sealed spacesuit
 [NASA-CASE-ARC-11059-1] c 54 N78-32721
 Hermetic seal for a shaft
 [NASA-CASE-NPO-15115-1] c 37 N82-24493
 Method for forming hermetic seals
 [NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
 Hermetically sealable package for hybrid solid-state electronic devices and the like
 [NASA-CASE-MS-20181-1] c 33 N88-23941
HETEROJUNCTIONS
 High-gain AlGaAs/GaAs double heterojunction
 Darlington phototransistors for optical neural networks
 [NASA-CASE-NPO-18101-1-CU] c 74 N91-25841
HEXAGONS
 Hexagon solar power panel
 [NASA-CASE-NPO-12148-1] c 44 N78-27515
HEXAMETHYLENETETRAMINE
 Structural wood panels with improved fire resistance
 [NASA-CASE-ARC-11174-1] c 24 N81-13999
HEXOKINASE
 Use of the enzyme hexokinase for the reduction of inherent light levels
 [NASA-CASE-XGS-05533] c 04 N69-27487
HIERARCHIES
 Fault tolerant hypercube computer system architecture
 [NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
 Bilevel shared control for teleoperators
 [NASA-CASE-NPO-17800-1-CU] c 37 N91-13724
 Bilevel shared control for teleoperators
 [NASA-CASE-NPO-17800-1-CU] c 37 N92-22036
HIGH ACCELERATION
 Universal pilot restraint suit and body support therefor
 Patent
 [NASA-CASE-XAC-00405] c 05 N70-41819
 High acceleration cable deployment system
 [NASA-CASE-ARC-11256-1] c 15 N82-24272
HIGH ALTITUDE
 Balanced bellows spirometer
 [NASA-CASE-XAR-01547] c 05 N69-21473
 Sun sensing guidance system for high altitude aircraft
 [NASA-CASE-FRC-11052-1] c 04 N82-23231
HIGH ALTITUDE BALLOONS
 Thin film strain transducer
 [NASA-CASE-WLP-10055-1] c 35 N84-28015
 Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
 [NASA-CASE-WLP-10055-2] c 35 N85-21598
HIGH ALTITUDE ENVIRONMENTS
 Method of making a solid propellant rocket motor
 Patent
 [NASA-CASE-XLA-04126] c 28 N71-26779

HIGH ASPECT RATIO

Landing arrangement for aerial vehicles Patent
 [NASA-CASE-XLA-00142] c 02 N70-33286
 Landing arrangement for aerial vehicle Patent
 [NASA-CASE-XLA-00806] c 02 N70-34858
 Means for controlling aerodynamically induced twist
 [NASA-CASE-LAR-12175-1] c 05 N82-28279
HIGH FREQUENCIES
 Apparatus for ballasting high frequency transistors
 [NASA-CASE-XGS-05003] c 09 N69-24318
 Holder for crystal resonators Patent
 [NASA-CASE-XNP-03637] c 15 N71-21311
 Multiple varactor frequency doubler Patent
 [NASA-CASE-XMF-04958-1] c 10 N71-26414
 Filtering technique based on high-frequency plant modeling for high-gain control
 [NASA-CASE-LAR-12215-1] c 08 N79-23097
 Method of and apparatus for double-exposure holographic interferometry
 [NASA-CASE-MFS-25405-1] c 35 N84-22929
 JFET reflection oscillator
 [NASA-CASE-GSC-12555-1] c 33 N86-19515
 Improved high power/high frequency inductor
 [NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

HIGH GAIN

Filtering technique based on high-frequency plant modeling for high-gain control
 [NASA-CASE-LAR-12215-1] c 08 N79-23097

HIGH LEVEL LANGUAGES

High level language-based robotic control system
 [NASA-CASE-NPO-17918-2-CU] c 63 N92-17895

HIGH PASS FILTERS

Radio frequency coaxial high pass filter Patent
 [NASA-CASE-XGS-01418] c 09 N71-23573

HIGH POLYMERS

Variable stiffness polymeric damper
 [NASA-CASE-XAC-11225] c 14 N69-27486

HIGH POWER LASERS

Large volume multiple-path nuclear pumped laser
 [NASA-CASE-LAR-12592-1] c 36 N82-13415
 Pulse switching for high energy lasers
 [NASA-CASE-NPO-14556-1] c 33 N82-24418
 High power metallic halide laser --- amplifying a copper chloride laser
 [NASA-CASE-NPO-14782-1] c 36 N82-28616
 Solar pumped laser
 [NASA-CASE-LAR-12870-1] c 36 N84-16542

HIGH PRESSURE

High-temperature, high-pressure spherical segment valve Patent
 [NASA-CASE-XAC-00074] c 15 N70-34817
 High pressure four-way valve Patent
 [NASA-CASE-XNP-00214] c 15 N70-36908
 High pressure filter Patent
 [NASA-CASE-XNP-00732] c 28 N70-41447
 Antilitter ball check valve Patent
 [NASA-CASE-XNP-01152] c 15 N70-41811
 Liquid flow sight assembly Patent
 [NASA-CASE-XLE-02998] c 14 N70-42074
 High pressure regulator valve Patent
 [NASA-CASE-XNP-00710] c 15 N71-10778
 Hypersonic test facility Patent
 [NASA-CASE-XLA-00378] c 11 N71-15925
 High pressure air valve Patent
 [NASA-CASE-MS-11010] c 15 N71-19485
 Valve seat with resilient support member Patent
 [NASA-CASE-XKS-02582] c 15 N71-21234
 High pressure helium purifier Patent
 [NASA-CASE-XMF-06888] c 15 N71-24044
 Liquid aerosol dispenser
 [NASA-CASE-MFS-20829] c 12 N72-21310
 Gas compression apparatus
 [NASA-CASE-MS-14757-1] c 35 N78-10428
 Purging means and method for Xenon arc lamps
 [NASA-CASE-NPO-11978] c 31 N78-17238
 Shaft seal assembly for high speed and high pressure applications
 [NASA-CASE-LEW-11873-1] c 37 N79-22475
 Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
 [NASA-CASE-MS-18422-1] c 37 N82-16408
 Damping seal for turbomachinery
 [NASA-CASE-MFS-25842-2] c 37 N86-20788
 High-temperature, high-pressure optical cell
 [NASA-CASE-MFS-26000-1] c 74 N87-14971
 Ultrasonic depth gauge for liquids under high pressure
 [NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
 High-pressure promoted combustion chamber
 [NASA-CASE-MS-21470-1] c 09 N91-21157
 Variable orifice flow regulator
 [NASA-CASE-MS-21549-1] c 34 N91-27504

HIGH RESOLUTION

High pulse rate high resolution optical radar system
 [NASA-CASE-NPO-11426] c 07 N73-26119

High resolution Fourier
 interferometer-spectrophotopolarimeter
 [NASA-CASE-NPO-13604-1] c 35 N76-31490
 High resolution threshold photoelectron spectroscopy by electron attachment
 [NASA-CASE-NPO-14078-1] c 72 N80-14877
 Interferometer --- high resolution
 [NASA-CASE-NPO-14448-1] c 74 N81-29963
 High speed multi focal plane optical system
 [NASA-CASE-GSC-12683-1] c 74 N83-36898
 Correlation spectrometer having high resolution and multiplexing capability
 [NASA-CASE-NPO-15558-1] c 35 N84-34705
 Multispectral variable magnification glancing incidence x ray telescope
 [NASA-CASE-MFS-28013-4] c 89 N90-27595
 Water window imaging x ray microscope
 [NASA-CASE-MFS-28485-1] c 35 N91-15519
HIGH SPEED
 Balanced bellows spirometer
 [NASA-CASE-XAR-01547] c 05 N69-21473
 High speed low level electrical stepping switch Patent
 [NASA-CASE-XAC-00060] c 09 N70-39915
 Impact testing machine Patent
 [NASA-CASE-XNP-04817] c 14 N71-23225
 Traversing probe Patent
 [NASA-CASE-XFR-02007] c 12 N71-24692
 High speed rolling element bearing
 [NASA-CASE-LEW-10856-1] c 15 N72-22490
 Two stage light gas-plasma projectile accelerator
 [NASA-CASE-MFS-22287-1] c 75 N76-14931
 Selective data segment monitoring system --- using shift registers
 [NASA-CASE-ARC-10899-1] c 60 N77-19760
 Shaft seal assembly for high speed and high pressure applications
 [NASA-CASE-LEW-11873-1] c 37 N79-22475
 High speed multi focal plane optical system
 [NASA-CASE-GSC-12683-1] c 74 N83-36898
 Pressure measuring probe
 [NASA-CASE-LAR-13853-1] c 35 N89-14423
 High speed magneto-resistive random access memory
 [NASA-CASE-NPO-17954-1-CU] c 60 N90-26519
HIGH SPEED CAMERAS
 Electrically-operated rotary shutter Patent
 [NASA-CASE-XNP-00637] c 14 N70-40273
HIGH STRENGTH
 Method of making fiber composites
 [NASA-CASE-LEW-10424-2-2] c 18 N72-25539
 High resistance and raised modulus carbon fibers
 [NASA-TM-76884] c 24 N85-25436
 Method of making contamination-free ceramic bodies
 [NASA-CASE-LEW-14984-1] c 27 N92-16122
HIGH STRENGTH ALLOYS
 High temperature cobalt-base alloy Patent
 [NASA-CASE-XLE-00726] c 17 N71-15644
 Low temperature aluminum alloy Patent
 [NASA-CASE-XMF-02786] c 17 N71-20743
 Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride
 Patent
 [NASA-CASE-XLE-03940] c 18 N71-26153
 Nickel base alloy
 [NASA-CASE-LEW-10874-1] c 17 N72-22535
 Cobalt-base alloy
 [NASA-CASE-LEW-10436-1] c 17 N73-32415
 High toughness-high strength iron alloy
 [NASA-CASE-LEW-12542-3] c 26 N80-32484
HIGH STRENGTH STEELS
 Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
 [NASA-CASE-NPO-12122-1] c 24 N76-14203
 Process for making a high toughness-high strength ion alloy
 [NASA-CASE-LEW-12542-2] c 26 N79-22271
HIGH TEMPERATURE
 High temperature heat source Patent
 [NASA-CASE-XLE-00490] c 33 N70-34545
 Thermionic diode switch Patent
 [NASA-CASE-NPO-10404] c 03 N71-12255
 Hypersonic test facility Patent
 [NASA-CASE-XLA-00378] c 11 N71-15925
 Method for fiberizing ceramic materials Patent
 [NASA-CASE-XNP-00597] c 18 N71-23088
 Induction furnace with perforated tungsten foil shielding
 Patent
 [NASA-CASE-XLE-04026] c 14 N71-23267
 Method of forming ceramic to metal seal Patent
 [NASA-CASE-XNP-01263-2] c 15 N71-26312
 Method of making fiber composites
 [NASA-CASE-LEW-10424-2-2] c 18 N72-25539
 Method of forming superalloys
 [NASA-CASE-LEW-10805-1] c 15 N73-13465
 High temperature beryllium oxide capacitor
 [NASA-CASE-LEW-11938-1] c 33 N76-15373

- Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581
- Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
- High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399
- Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
- Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
- Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
- High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971
- Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
- Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
- Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
- High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
- High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
- A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881
- Braided composite fasteners and method for producing same
[NASA-CASE-LAR-14062-1] c 37 N90-27114
- Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560
- Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684
- Flexible diaphragm-extreme temperature usage
[NASA-CASE-MSC-20797-2] c 35 N91-21494
- Low toxicity high temperature PMR polyimides
[NASA-CASE-LAR-14639-1] c 27 N92-11199
- High temperature, flexible pressure-actuated, brush seal
[NASA-CASE-LEW-15086-1] c 37 N92-16318
- Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586
- HIGH TEMPERATURE AIR**
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144
- HIGH TEMPERATURE ENVIRONMENTS**
High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
- Nickel-base alloy, Patent
[NASA-CASE-XLE-00293] c 17 N70-36616
- Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
- Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
- Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
- Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
- Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
- Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
- Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
- Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
- HIGH TEMPERATURE FLUIDS**
Self-cycling fluid heater
[NASA-CASE-MSC-15567-1] c 33 N73-16918
- High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
- HIGH TEMPERATURE GASES**
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
- Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032
- Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
- Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262
- Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
- Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
- Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
- Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
- Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
- Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N91-32167
- HIGH TEMPERATURE LUBRICANTS**
Method of making self lubricating fluoride-metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105
- Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
- Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
- HIGH TEMPERATURE PLASMAS**
Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661
- HIGH TEMPERATURE PROPELLANTS**
Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
- HIGH TEMPERATURE RESEARCH**
Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
- Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
- High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
- HIGH TEMPERATURE SUPERCONDUCTORS**
Improved superconducting bearings
[NASA-CASE-GSC-13346-1] c 37 N91-28578
- Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N92-10681
- HIGH TEMPERATURE TESTS**
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
- High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
- Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
- Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
- Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
- HIGH VACUUM**
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
- Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
- Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
- Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913
- HIGH VACUUM ORBITAL SIMULATOR**
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
- HIGH VOLTAGES**
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
- High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
- High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
- High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
- High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
- High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
- Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385
- High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
- Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
- High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
- High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
- HIGHWAYS**
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
- HINGES**
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
- Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
- Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
- Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660
- Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621
- Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199
- HISTOGRAMS**
Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928
- HOLDERS**
Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
- Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
- Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
- Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
- Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
- Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
- Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
- Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
- Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
- Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
- Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
- Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
- Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
- Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751
- Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
- Active hold-down for heat treating
[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704
- Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832
- Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
- Gripping device
[NASA-CASE-MSC-21365-1] c 37 N90-20408
- Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-14617
- Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N91-17401
- Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545
- Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N91-26543
- Ignitability test method and apparatus
[NASA-CASE-LAR-14454-1] c 25 N91-32196
- System for testing bearings
[NASA-CASE-MFS-28589-1] c 37 N92-17584

HOLE DISTRIBUTION (MECHANICS)

Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409

HOLE GEOMETRY (MECHANICS)

Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361

HOLE MOBILITY

Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460

HOLES (MECHANICS)

Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361

HOLLOW

Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513

HOLLOW CATHODES

Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

HOLMIUM

Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528

HOLOGRAPHIC INTERFEROMETRY

Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202

HOLOGRAPHY

Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324
Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476
Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
Control system for ruling blazed, aberration corrected diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N92-10186
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808

HOMING DEVICES
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173

HONEYCOMB CORES
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Honeycomb core structures of minimal surface tubule sections
[NASA-CASE-ERC-10363] c 18 N72-25541

HONEYCOMB STRUCTURES
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322

Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737

HOOP COLUMN ANTENNAS
Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

HOPPERS
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423

HORIZON SCANNERS
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Multi-lobar scan horizon sensor Patent
[NASA-CASE-XGS-00809] c 21 N70-35427
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475

HORIZONTAL SPACECRAFT LANDING
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986

HORIZONTAL TAIL SURFACES
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043

HORN ANTENNAS
Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278

HOSES
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035

HOT CATHODES

Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889

HOT CORROSION

Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303

HOT ISOSTATIC PRESSING

One step HIP canning of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493
Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145

HOT PRESSING

Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491

HOT WORKING

Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803

HOT-FILM ANEMOMETERS

Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168

HOT-WIRE ANEMOMETERS

Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454

HOT-WIRE FLOWMETERS

Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470

HOUSINGS

Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600
Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323
Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N91-17401
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N91-23490
Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N91-25335
Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542
Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N91-28579
Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N91-28727
Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286
Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N92-21728

HOVERING

Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039

HUBBLE SPACE TELESCOPE

System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817

HUBS

Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336

HUGONIOT EQUATION OF STATE

Determining particle density using known material Hugoniot curves
[NASA-CASE-LAR-11059-1] c 76 N75-12810

HULLS (STRUCTURES)

- Hydrofoil Patent*
[NASA-CASE-XLA-00229] c 12 N70-33305
- HUMAN BEINGS**
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621
- HUMAN BODY**
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
Garments for controlling the temperature of the body
Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706
- HUMAN FACTORS ENGINEERING**
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Harness assembly Patent
[NASA-CASE-MFS-14671] c 05 N71-12341
Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
Multi-adjustable headband --- for headsets
[NASA-CASE-KSC-11322-1] c 54 N89-29953
Compliant walker
[NASA-CASE-GSC-13348-2] c 52 N91-29714
- HUMAN PERFORMANCE**
Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015
- HUMAN REACTIONS**
Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256
- HUMAN WASTES**
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758
- HUMIDITY**
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
- HUMIDITY MEASUREMENT**
Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953

HYBRID CIRCUITS

- Integrating IR detector imaging systems*
[NASA-CASE-NPO-15805-1] c 74 N84-28590
- Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N88-23941
- HYBRID COMPUTERS**
Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
- HYBRID PROPELLANTS**
Solid propellant liner Patent
[NASA-CASE-NPO-09744] c 27 N71-16392
- HYDRAULIC CONTROL**
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
Hydraulic transformer Patent
[NASA-CASE-MSC-20830] c 15 N71-30028
Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
- HYDRAULIC EQUIPMENT**
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
Hydraulic grip Patent
[NASA-CASE-XLA-05100] c 15 N71-17696
Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
Geysing inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738
Passively activated prehensile digit for a robotic end effector
[NASA-CASE-NPO-16766-1-CU] c 37 N89-13785
Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733
- HYDRAULIC FLUIDS**
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
- HYDRAULIC JETS**
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242
- HYDRAZIDES**
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N91-23237

HYDRAZINE ENGINES

- Reciprocating engines*
[NASA-CASE-MSC-16239-1] c 37 N81-32510
- HYDRAZINE NITROFORM**
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
- HYDRAZINES**
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066
A process for preparing 1,3-diamino-5-pentafluorosulfanylbenzene and polymers therefrom
[NASA-CASE-LAR-14773-1-CU] c 27 N92-10105
- HYDRIDES**
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
- HYDROCARBON COMBUSTION**
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
- HYDROCARBON FUEL PRODUCTION**
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
- HYDROCARBON FUELS**
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298
Regenerative Cu/La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073
- HYDROCARBONS**
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560
- HYDROCHLORIC ACID**
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N91-15368
- HYDROCHLORIDES**
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- HYDRODYNAMICS**
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410
- HYDROFOILS**
Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305
- HYDROFORMING**
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346

HYDROGEN

- Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
- Prevention of pressure build-up in electrochemical cells
Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
- Pulse activated polarographic hydrogen detector
Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
- Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
- Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
- Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
- Process for separation of dissolved hydrogen from water
by use of palladium and process for coating palladium
with palladium black
[NASA-CASE-MS-C-13335-1] c 06 N72-31140
- Atomic hydrogen maser with bulb temperature control
to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
- Method of producing a storage bulb for an atomic
hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
- Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
- Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641
- Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c 44 N76-18642
- Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
- Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
- Method and automated apparatus for detecting coliform
organisms
[NASA-CASE-MS-C-16777-1] c 51 N80-27067
- Method of cross-linking polyvinyl alcohol and other water
soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
- Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
- Static feed water electrolysis subsystem development
[NASA-CASE-MS-C-21577-1-SB] c 25 N91-23271
- HYDROGEN ATOMS**
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365
- Atomic hydrogen storage --- cryotraping and magnetic
field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
- HYDROGEN EMBRITTLEMENT**
Prevention of hydrogen embrittlement of high strength
steel by hydrazine compositions --- by adding potassium
hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
- HYDROGEN ENGINES**
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
- HYDROGEN FUELS**
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
- Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
- Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636
- Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298
- HYDROGEN IONS**
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
- HYDROGEN OXYGEN FUEL CELLS**
Electrolytically regenerative hydrogen-oxygen fuel cell
Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
- Passively regulated water electrolysis rocket engine
Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
- HYDROGEN PEROXIDE**
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
- HYDROGEN PRODUCTION**
Start up system for hydrogen generator used with an
internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
- Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368
- Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495
- HYDROGENATION**
Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805

- Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
- HYDROLOGY**
Radar target for remotely sensing hydrological
phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
- HYDROLYSIS**
Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
- Apparatus and method for cellulose processing using
microwave pretreatment
[NASA-CASE-MS-C-21936-1] c 25 N92-19486
- HYDROSTATIC PRESSURE**
Method and apparatus for simulating gravitational forces
on a living organism
[NASA-CASE-MS-C-20202-1] c 54 N84-16803
- HYDROSTATICS**
Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
- HYDROXIDES**
Method for determining presence of OH in magnesium
oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
- Separator for alkaline electric batteries and method of
making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
- Synthesis of dawsonites --- for use in fire extinguishing
operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
- HYDROXYL COMPOUNDS**
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
- HYGIENE**
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MS-C-18381-1] c 52 N81-28740
- Regenerable biocide delivery unit
[NASA-CASE-MS-C-21763-1] c 51 N91-25570
- HYGROMETERS**
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
- Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
- HYGROSCOPICITY**
Method of evaluating moisture barrier properties of
encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
- HYOSCINE**
Intranasal scopolamine preparation and method
[NASA-CASE-MS-C-21858-1] c 52 N92-11628
- HYPERCUBE MULTIPROCESSORS**
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
- Method of up-front load balancing for local memory
parallel processors
[NASA-CASE-MS-C-21348-1] c 62 N91-14769
- HYPERFINE STRUCTURE**
Process for producing dispersion strengthened nickel
with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
- HYPERGOLIC ROCKET PROPELLANTS**
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
- Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
- Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
- HYPERSONIC AIRCRAFT**
Multistage aerospace craft --- perspective drawings of
conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
- HYPERSONIC FLIGHT**
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
- HYPERSONIC FLOW**
Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475
- HYPERSONIC SPEED**
Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
- Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
- Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
- High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
- Apparatus and method for generating large mass flow
of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262
- Apparatus and method for generating large mass flow
of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144
- HYPERSONIC VEHICLES**
Techniques for insulating cryogenic fuel containers
Patent
[NASA-CASE-XLA-01967] c 31 N70-42015

HYPERSONIC WIND TUNNELS

- Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
- Quantitative surface temperature measurement using
two-color thermographic phosphors and video
equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770
- HYPERTHERMIA**
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
- HYPERVELOCITY GUNS**
Dust particle injector for hypervelocity accelerators
Patent
[NASA-CASE-XGS-06628] c 24 N71-16213
- Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578
- Collapsible pistons
[NASA-CASE-MS-C-13789-1] c 11 N73-32152
- Hypervelocity gun --- using both electric and chemical
energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084
- HYPERVELOCITY IMPACT**
Method of and device for determining the characteristics
and flux distribution of micrometeorites --- scanning
puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
- Hypervelocity impact shield
[NASA-CASE-MS-C-21420-1] c 18 N92-15114
- HYPERVELOCITY PROJECTILES**
Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282
- Multiple image storing system for high speed projectile
holography
[NASA-CASE-MFS-20596] c 14 N72-17324
- HYPERVELOCITY WIND TUNNELS**
Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
- Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475
- HYSTERESIS**
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
- Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
- ICE**
Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149
- IDENTIFYING**
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
- IGNITERS**
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
- Remote fire stack igniter --- with solenoid-controlled
valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
- Molded composite pyrogen igniter for rocket motors ---
solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
- Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
- Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MS-C-25707-1] c 35 N85-29214
- IGNITION**
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
- Device and method for frictionally testing materials for
ignitability
[NASA-CASE-MS-C-20622-1] c 25 N86-19413
- Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
- Ignitability test method and apparatus
[NASA-CASE-LAR-14454-1] c 25 N91-32196
- IGNITION LIMITS**
High voltage pulse generator Patent
[NASA-CASE-MS-C-12178-1] c 09 N71-13518
- IGNITION SYSTEMS**
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
- Ignition system for monopropellant combustion devices
Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
- Rocket motor system Patent
[NASA-CASE-XLE-00323] c 28 N70-38505
- Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
- Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385

IGNITION TEMPERATURE

Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629

ILLUMINATING
EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879

ILLUMINATORS
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292

IMAGE ANALYSIS
Real-time image difference detection using a polarization rotation spacial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317

IMAGE CONTRAST
Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c 07 N71-27341
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932

IMAGE CONVERTERS
Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841

IMAGE CORRELATORS
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348

IMAGE DISSECTOR TUBES
Apparatus for calibrating an image dissector tube
[NASA-CASE-MFS-22208-1] c 33 N75-26244
Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935

IMAGE ENHANCEMENT
Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706
Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-17675

IMAGE FILTERS
Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706
Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594

IMAGE INTENSIFIERS
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389

IMAGE PROCESSING
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768

Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541
Programmable pipelined image processor
[NASA-CASE-NPO-16461-1-CU] c 60 N89-26400
Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911
Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546
Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N91-32925
Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126
Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N92-16563

IMAGE RECONSTRUCTION
Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976
Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N92-16563

IMAGE RESOLUTION
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072

IMAGE ROTATION
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978

IMAGE TUBES
Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c 33 N74-21850
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

IMAGERY
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
Atmospheric autotrotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769

IMAGES
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

IMAGING RADAR
Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

IMAGING TECHNIQUES
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Phototransistor imaging system
[NASA-CASE-MFS-20809] c 23 N73-13660
Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393
Data storage, image tube type
[NASA-CASE-MSC-14053-1] c 60 N74-12888
Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288

System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650
Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384
Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N90-27595
Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
Water window imaging x ray microscope
[NASA-CASE-MFS-28465-1] c 35 N91-15519
Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N92-16563
Wide field strip-imaging optical system
[NASA-CASE-NPO-18146-1-CU] c 74 N92-17892

IMIDES
Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphenylazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphoryl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564

- Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
- Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and 2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042
- Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
- Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953
- N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419
- IMINES**
Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
- Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
- Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
- Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
- IMMOBILIZATION**
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
- Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
- Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
- Active hold-down for heat treating
[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704
- IMPACT**
Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443
- Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
- Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
- Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412
- IMPACT ACCELERATION**
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
- IMPACT DAMAGE**
Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
- Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
- Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822
- IMPACT LOADS**
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
- Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
- IMPACT RESISTANCE**
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
- Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
- IMPACT STRENGTH**
High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
- IMPACT TESTING MACHINES**
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
- Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
- Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
- IMPACT TESTS**
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
- IMPACT TOLERANCES**
High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
- Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
- IMPEDANCE**
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
- Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095
- Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
- Nonintrusive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544
- IMPEDANCE MATCHING**
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
- Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
- Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
- Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
- IMPEDANCE MEASUREMENT**
High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
- Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
- IMPELLERS**
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842
- IMPLANTATION**
Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
- Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
- Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- IMPLANTED ELECTRODES (BIOLOGY)**
Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
- Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
- Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
- IMPLOSIONS**
Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578
- IMPREGNATING**
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
- Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
- High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
- Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334
- Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374
- IMPULSE GENERATORS**
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
- IMPURITIES**
Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
- Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
- Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105
- IN-FLIGHT MONITORING**
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
- INCIDENCE**
Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
- INCIDENT RADIATION**
Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
- INCLINATION**
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
- INCOHERENT SCATTERING**
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859
- INDICATING INSTRUMENTS**
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
- Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
- Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132
- Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173
- Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
- System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
- Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
- Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
- Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
- INDIUM ALLOYS**
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
- Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
- Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621
- INDIUM COMPOUNDS**
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
- INDUCTANCE**
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
- Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
- Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
- INDUCTION**
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
- INDUCTION HEATING**
Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
- Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
- One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
- Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
- INDUCTION MOTORS**
Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
- Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
- Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
- Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
- Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
- Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
- Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
- Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
- Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
- Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
- Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
- Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
- Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
- Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
- Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
- Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877

INDUCTORS

- Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
- Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
- Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
- Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
- Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539
- INDUSTRIAL PLANTS**
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
- INDUSTRIAL WASTES**
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MS-C-14831-1] c 25 N78-10225
- Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
- INERT ATMOSPHERE**
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
- INERTIA**
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
- INERTIAL CONFINEMENT FUSION**
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
- Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
- INERTIAL GUIDANCE**
Hermetic sealed vibration damper Patent
[NASA-CASE-MS-C-10959] c 15 N71-26243
- INERTIAL NAVIGATION**
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
- Assured crew return vehicle
[NASA-CASE-MS-C-21536-1] c 18 N91-13483
- Assured crew return vehicle
[NASA-CASE-MS-C-21536-1] c 18 N92-21999
- INERTIAL PLATFORMS**
Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
- Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
- Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
- Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
- Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
- INERTIAL REFERENCE SYSTEMS**
Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
- Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16098
- INFLATABLE SPACECRAFT**
Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
- Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
- Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
- Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052
- Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
- INFLATABLE STRUCTURES**
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
- Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
- Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
- Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
- Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
- Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
- Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
- Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
- Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
- Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
- Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
- Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
- Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
- Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
- Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
- Emergency space-suit helmet
[NASA-CASE-MS-C-10954-1] c 54 N78-18761
- Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
- Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
- Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
- Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
- INFORMATION RETRIEVAL**
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
- Dynamic pattern matcher using incomplete data
[NASA-CASE-MS-C-21415-1-SB] c 61 N92-17860
- INFORMATION SYSTEMS**
Dynamic pattern matcher using incomplete data
[NASA-CASE-MS-C-21415-1-SB] c 61 N92-17860
- INFORMATION THEORY**
Dynamic pattern matcher using incomplete data
[NASA-CASE-MS-C-21415-1-SB] c 61 N92-17860
- INFRARED DETECTORS**
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
- Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
- Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
- Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
- Multispectral scanner optical system
[NASA-CASE-MS-C-18255-1] c 74 N80-33210
- Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
- Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
- Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271
- Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
- Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N91-21434
- INFRARED INSTRUMENTS**
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71-NPO-15494-2] c 35 N85-34373
- INFRARED INTERFEROMETERS**
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
- INFRARED LASERS**
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
- Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
- Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
- INFRARED PHOTOMETRY**
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118
- INFRARED RADIATION**
High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
- High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
- Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
- Lunar radiator shade
[NASA-CASE-MS-C-21868-1] c 54 N92-11639
- Lunar radiator shade
[NASA-CASE-MS-C-21868-1] c 54 N92-21589
- INFRARED REFLECTION**
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- INFRARED SCANNERS**
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
- Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475
- INFRARED SPECTRA**
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
- Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
- INFRARED SPECTROMETERS**
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
- Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635
- INFRARED SPECTROSCOPY**
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
- INFRARED TELESCOPES**
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125
- INFRASONIC FREQUENCIES**
Resonant infrasonic gauging apparatus
[NASA-CASE-MS-C-11847-1] c 14 N72-11363
- INHIBITORS**
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228
- INITIATORS (EXPLOSIVES)**
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
- Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
- Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
- Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MS-C-21166-1] c 35 N87-25555
- INJECTION**
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
- High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- INJECTION LASERS**
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305
- INJECTORS**
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
- Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
- Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
- Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213
- Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
- Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
- Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
- Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
- Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
- Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
- Method of injecting fluid propellants into a rocket combustion chamber
[NASA-CASE-LEW-14846-2] c 20 N91-26200
- Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N92-10054
- INKS**
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

INLET FLOW

- High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
- Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
- Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
- Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
- Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
- Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
- Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
- Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

INLET NOZZLES

- Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
- Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

INLET PRESSURE

- Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
- Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

INOCULATION

- Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502

INORGANIC COATINGS

- Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
- Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233

INORGANIC COMPOUNDS

- Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
- Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
- Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
- Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
- Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
- Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910

INORGANIC PEROXIDES

- Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
- Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

INPUT

- Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
- Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
- High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

INPUT/OUTPUT ROUTINES

- Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-18345

INSERTION

- Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

INSERTION LOSS

- Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057

INSERTS

- Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
- Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842
- Improved method and apparatus for Mach number change in wind tunnel
[NASA-CASE-LAR-13548-1] c 09 N91-28175
- Blind fastening apparatus
[NASA-CASE-LAR-14542-1] c 37 N92-11354

INSPECTION

- Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396

- Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
- Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
- Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756
- Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562

INSTALLING

- Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
- Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
- A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
- Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

INSTRUMENT COMPENSATION

- Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138

INSTRUMENT ERRORS

- Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239

INSTRUMENT FLIGHT RULES

- Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

INSTRUMENT ORIENTATION

- Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
- Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
- Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
- Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637

INSTRUMENT PACKAGES

- Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
- Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
- Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
- Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
- Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
- Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523

INSTRUMENTS

- Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
- Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
- Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
- Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
- Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
- Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842
- Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
- Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425

INSULATED STRUCTURES

- Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935

INSULATION

- Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
- Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
- Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444
- Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
- Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
- Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
- Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
- Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426

- Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
- Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
- Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33607
- Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
- Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
- High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
- Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026
- Sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N92-16123
- Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197

INSULATORS

- Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
- High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
- Process for lowering the dielectric constant of polyimides using diamine acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546
- Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911

INTAKE SYSTEMS

- Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
- The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
- Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
- Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
- Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
- Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
- Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595

INTEGERS

- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

INTEGRATED CIRCUITS

- Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
- Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
- Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464
- Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
- Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230
- Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
- Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951
- Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
- Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
- Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428
- Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395
- Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
- Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
- Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348

Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884

Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187

Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231

Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594

Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160

Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271

Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622

Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552

High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841

Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014

Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438

Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196

INTEGRATORS

Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520

Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084

Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315

Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669

High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596

Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

INTERITY

Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541

INTERCALATION

Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289

Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025

INTERFACES

Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793

Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958

Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384

Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553

Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-2] c 18 N89-28554

INTERFACIAL TENSION

Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278

Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578

Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

INTERFERENCE FIT

Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112

INTERFEROMETERS

Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627

Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694

Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170

Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215

Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446

Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463

High resolution Fourier interferometer-spectrophotometer
[NASA-CASE-NPO-13604-1] c 35 N76-31490

Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348

Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563

Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888

Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963

Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448

Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949

Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577

Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488

Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871

Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N92-22034

INTERFEROMETRY

Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391

Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282

Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488

Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998

Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N91-14001

Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N92-22034

INTERLAYERS

Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235

INTERMEDIATE FREQUENCY AMPLIFIERS

Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321

INTERMETALLICS

Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752

Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437

Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482

INTERNAL COMBUSTION ENGINES

Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MSC-12139-1] c 28 N71-14058

Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983

System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772

System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457

Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497

Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526

Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345

Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374

Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129

Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559

Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981

Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042

INTERNAL PRESSURE

Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N91-25415

Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N92-21727

INTERPLANETARY SPACE

Heat shield Patent
[NASA-CASE-XMS-00486] c 33 N70-33344

RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171

INTERPLANETARY SPACECRAFT

Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075

INTERPLANETARY TRAJECTORIES

Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

INTERPOLATION

Two dimensional vernier
[NASA-CASE-MSC-21700-1] c 35 N91-23462

Two dimensional vernier
[NASA-CASE-MSC-21700-1] c 35 N92-22039

INTERPROCESSOR COMMUNICATION

Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805

INTERVALS

Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005

INTRACRANIAL PRESSURE

Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691

INTRAOCULAR PRESSURE

Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684

Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690

INTRAVEHICULAR ACTIVITY

Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012

INTRAVENOUS PROCEDURES

Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577

Intranasal scopolamine preparation and method
[NASA-CASE-MSC-21858-1] c 52 N92-11628

INTRUSION

Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559

INVENTIONS

Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583

Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244

Whole body cleansing agent
[NASA-CASE-MSC-21589-1] c 54 N91-16566

Lamina transducer coupler and method of making
[NASA-CASE-LAR-14361-1] c 71 N91-16707

Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815

Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562

Improving the performance of blasting caps
[NASA-CASE-LAR-13832-1] c 28 N91-28444

Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N91-28580

Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N91-28582

Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950

INVERTED CONVERTERS (DC TO AC)

- Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
- Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
- Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

INVERTERS

- Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
- Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
- Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
- Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
- Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
- Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
- Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

INVESTIGATION

- Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835

IODINE

- Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
- Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570

IODINE COMPOUNDS

- Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016

IODINE ISOTOPES

- Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681
- Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
- Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379

ION ACCELERATORS

- Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
- Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959

ION BEAMS

- Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
- Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
- Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
- Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
- Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
- Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
- Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
- Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
- Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
- Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660
- Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179

- Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
- Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

ION CHARGE

- Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325

ION CONCENTRATION

- Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270

ION CURRENTS

- System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518

ION CYCLOTRON RADIATION

- Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492

ION DENSITY (CONCENTRATION)

- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

ION ENGINES

- Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
- High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
- Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
- Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
- Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
- Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
- Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
- Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
- Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
- Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
- System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
- Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
- Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
- Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
- Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
- Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
- High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
- Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
- Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
- Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27699
- Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
- Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
- Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

ION EXCHANGE MEMBRANE ELECTROLYTES

- Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
- Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
- Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
- Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187

- Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

ION EXCHANGE RESINS

- Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
- Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
- Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076

ION EXCHANGING

- Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
- Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
- Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570

ION EXTRACTION

- Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
- Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
- Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

ION IMPLANTATION

- Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360

ION IRRADIATION

- Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
- Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179

ION MOTION

- Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

ION PLATING

- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
- Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

ION PROBES

- Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863

ION PROPULSION

- Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
- Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
- Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
- Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
- Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
- Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
- Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
- Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
- Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
- Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
- Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
- Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
- Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
- Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
- Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
- A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
- Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

ION PUMPS

Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

ION SOURCES

Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

ION TRAPS (INSTRUMENTATION)

Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

IONIC MOBILITY

Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710

IONIZATION

Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

IONIZATION CHAMBERS

Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464

IONIZATION CROSS SECTIONS

Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169

IONIZATION GAGES

Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391

IONIZATION POTENTIALS

Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

IONIZED GASES

Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N91-25335

IONIZERS

Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

IONIZING RADIATION

High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198

IONOSPHERIC DISTURBANCES

Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONOSPHERIC ELECTRON DENSITY

Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONOSPHERIC SOUNDING

Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONS

Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622

IRIDIUM

Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

IRISES (MECHANICAL APERTURES)

Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172

IRON

Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

IRON ALLOYS

Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182
Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

IRON CHLORIDES

Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

IRON COMPOUNDS

Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246

IRRADIATION

Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N91-13561
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627

IRRIGATION

Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701

ISOLATION

High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

ISOLATORS

Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781

Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541

ISOPROPYL ALCOHOL

Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102

ISOPROPYL COMPOUNDS

Polyimides containing amide and perfluoroisopropyl connecting groups
[NASA-CASE-LAR-14608-1] c 27 N92-17676

ISOTHERMAL LAYERS

Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353

ISOTHERMAL PROCESSES

Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366

ISOTOPE SEPARATION

Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732

J

JET AIRCRAFT

Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800

JET AIRCRAFT NOISE

Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

JET AMPLIFIERS

Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741

JET BLAST EFFECTS

Single action separation mechanism Patent
[NASA-CASE-XLA-00189] c 15 N71-22874

JET CONTROL

Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938

JET ENGINES

Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563
Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749

JET EXHAUST
Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490

SUBJECT INDEX

Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089

Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

JET FLAPS
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332

JET FLOW
Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292
System for venting gas from a liquid storage tank
[NASA-CASE-MS-C-21253-1] c 31 N90-20254

JET MIXING FLOW
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199

JET NOZZLES
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093

JET PROPULSION
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121

JET PUMPS
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

JET THRUST
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466

JETTISON SYSTEMS
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675
Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

JIGS
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447

JOINING
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

JOINTS (ANATOMY)
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651
Automatic locking orthotic knee device
[NASA-CASE-MFS-28633-1] c 54 N92-17866

JOINTS (JUNCTIONS)
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951

Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128

Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
Flexible joint for pressurizable garment
[NASA-CASE-MS-C-11072] c 54 N74-32546
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MS-C-18134-1] c 37 N81-15363
Reusable captive blind fastener
[NASA-CASE-MS-C-18742-1] c 37 N82-26673
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
Fluid leak indicator
[NASA-CASE-MS-C-20783-1] c 35 N86-20756
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507
Foldable self-erecting joint
[NASA-CASE-MS-C-20635-1] c 18 N87-14373
Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
Method of inseting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197
Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614
Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616
Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387
Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388
Apparatus for joining trusses
[NASA-CASE-MFS-28545-1] c 31 N91-25306
Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N91-28580
A method and apparatus for indicating disbands in joint regions
[NASA-CASE-LAR-14626-1] c 38 N92-17859
Pressure vessel flex joint
[NASA-CASE-MS-C-21748-1] c 37 N92-21727

JOSEPHSON JUNCTIONS
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Planar thin film SQUID with integral flux concentrator
[NASA-CASE-MFS-28282-1] c 76 N88-29602

JOULE-THOMSON EFFECT
Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897

Joule Thomson refrigerator
[NASA-CASE-NPO-17143-1-CU] c 31 N89-14351

Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203

JOURNAL BEARINGS
Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
Air bearing assembly for curved surfaces
[NASA-CASE-MFS-20423] c 15 N72-11388
Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

JUNCTION DIODES
Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399

JUNCTION TRANSISTORS
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879

K

KALMAN FILTERS
Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713
Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016

KETONES
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185
Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N91-27220

KEYING
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163

KIDNEY DISEASES
Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236

KIDNEYS
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913

KINEMATICS
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544

KINETIC ENERGY
Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
Energy dissipator
[NASA-CASE-MS-C-21555-1] c 37 N91-23492

KINETIC FRICTION
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995

- Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
- KINETICS**
- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
- KNEE (ANATOMY)**
- Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
- Automatic locking orthotic knee device
[NASA-CASE-MFS-28633-1] c 54 N92-17866
- KNOWLEDGE REPRESENTATION**
- Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741
- KRAFT PROCESS (WOODPULP)**
- Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
- KRYPTON**
- Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917

L

LABORATORY EQUIPMENT

- Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
- Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
- Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284
- Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
- Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
- Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
- Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677
- Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493
- The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
- Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
- Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169
- Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
- Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751
- Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
- Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242

LACQUERS

- Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

LADDERS

- Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974

LAMBERT SURFACE

- A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253

LAMINAR BOUNDARY LAYER

- Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
- Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410

LAMINAR FLOW

- Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
- Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
- Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

- Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
- Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
- Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596
- Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243
- LAMINAR FLOW AIRFOILS**
- Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793

LAMINATES

- Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
- Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
- Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
- Method of laminating structural members
[NASA-CASE-XLA-11028-1] c 24 N74-27035
- Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
- Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
- Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
- Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
- Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
- Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331
- Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170
- Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
- Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
- Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
- Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073
- Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
- High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
- Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
- Fire and heat resistant laminating resins based on maleimide and citraconimide substituted 1-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751
- Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
- Method of inserting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197
- Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333
- Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091
- Intercalated hybrid graphite fiber composite
[NASA-CASE-LEW-15241-1] c 24 N92-17861

LAND MOBILE SATELLITE SERVICE

- Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523

LANDFORMS

- Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499

LANDING AIDS

- Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326

- Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
- Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
- LANDING GEAR**
- Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159
- Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160
- Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
- Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
- Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845
- Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354
- Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589
- Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
- LANDING MODULES**
- Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354
- LANDING SIMULATION**
- Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
- LANDING SITES**
- Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N91-13483
- Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N92-21999
- LANTHANUM COMPOUNDS**
- Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572
- LAP JOINTS**
- Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
- LARGE SCALE INTEGRATION**
- Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
- Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
- LARGE SPACE STRUCTURES**
- Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
- Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
- Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
- Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
- Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
- Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
- Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206
- Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492
- Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
- Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
- Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
- Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
- Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N91-15544
- Torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N91-21176
- Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199
- LASER ALTIMETERS**
- Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
- LASER APPLICATIONS**
- High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
- Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
- Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753

- Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction [NASA-CASE-ARC-10970-1] c 36 N77-25501
- Compact pulsed laser having improved heat conductance [NASA-CASE-NPO-13147-1] c 36 N77-25502
- Laser extensometer [NASA-CASE-MFS-19259-1] c 36 N78-14380
- Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field [NASA-CASE-LEW-12465-1] c 25 N78-25148
- Volumetric direct nuclear pumped laser [NASA-CASE-LAR-12183-1] c 36 N79-18307
- Rhomboid prism pair for rotating the plane of parallel light beams [NASA-CASE-ARC-11311-1] c 74 N83-13978
- Dual laser optical system and method for studying fluid flow [NASA-CASE-MFS-25315-1] c 36 N83-29680
- Portable remote laser sensor for methane leak detection [NASA-CASE-NPO-15790-1] c 36 N85-21631
- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding [NASA-CASE-GSC-12558-1] c 36 N85-21639
- Laser activated MTOS microwave device [NASA-CASE-NPO-16112-1] c 33 N86-19516
- Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis [NASA-CASE-NPO-16271-1] c 35 N86-25753
- High-temperature, high-pressure optical cell [NASA-CASE-MFS-26000-1] c 74 N87-14971
- Multiplex electric discharge gas laser system [NASA-CASE-NPO-16433-1] c 36 N87-23961
- Laser schlieren crystal monitor [NASA-CASE-MFS-28060-1] c 76 N87-25862
- Isotope separation using tuned laser and electron beam [NASA-CASE-NPO-16907-1-CU] c 25 N88-24732
- Optically controlled welding system [NASA-CASE-MFS-29291-1] c 37 N89-12868
- Noncontact temperature pattern measuring device [NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
- Isotope exchange in oxide-containing catalyst [NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
- Electrostatically suspended rotor for angular encoder [NASA-CASE-MFS-28294-1] c 31 N91-14508
- Optical joint correlator for real-time image tracking and retinal surgery [NASA-CASE-MSC-21509-1] c 74 N91-25840
- Multiperiod-grating surface-emitting lasers [NASA-CASE-NPO-17763-1-CU] c 36 N92-17862
- LASER BEAMS**
- Hanging drop crystal growth apparatus [NASA-CASE-MFS-26061-1] c 76 N91-16815
- Quantum well, beam deflecting surface emitting lasers [NASA-CASE-NPO-18243-1-CU] c 36 N91-32489
- Apparatus for precision focussing and positioning of a beam waist on a target [NASA-CASE-ARC-11916-1-SB] c 74 N92-16811
- LASER CAVITIES**
- Laser apparatus [NASA-CASE-GSC-12237-1] c 36 N80-14384
- Laser Resonator [NASA-CASE-GSC-12565-1] c 36 N84-14509
- Long gain length solar pumped box laser [NASA-CASE-LAR-13256-1] c 36 N86-29204
- LASER DOPPLER VELOCIMETERS**
- Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields [NASA-CASE-ARC-10637-1] c 35 N75-16783
- Combined dual scatter, local oscillator laser Doppler velocimeter [NASA-CASE-ARC-10642-1] c 36 N76-14447
- Focused laser Doppler velocimeter [NASA-CASE-MFS-23178-1] c 35 N77-10493
- Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction [NASA-CASE-ARC-10970-1] c 36 N77-25501
- Optical scanner --- laser doppler velocimeters [NASA-CASE-LAR-11711-1] c 74 N78-17866
- Versatile LDV burst simulator [NASA-CASE-LAR-11859-1] c 35 N79-14349
- Laser Doppler velocity simulator --- to induce frequency shift [NASA-CASE-LAR-12176-1] c 36 N80-16321
- Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser [NASA-CASE-LAR-12177-1] c 36 N81-24422
- Scanning afocal laser velocimeter projection lens system [NASA-CASE-LAR-12328-1] c 36 N82-32712
- Powder fed sheared dispersal particle generator [NASA-CASE-LAR-12785-1] c 37 N84-16561
- Auto covariance computer [NASA-CASE-LAR-12968-1] c 60 N86-21154
- Spinning disk calibration method and apparatus for laser Doppler velocimeter [NASA-CASE-ARC-11510-1] c 35 N86-32697
- Vibration-free Raman Doppler velocimeter [NASA-CASE-LAR-13268-1] c 35 N87-14669
- Projection lens scanning laser velocimeter system [NASA-CASE-ARC-11547-1] c 36 N87-17026
- Dual mode laser velocimeter [NASA-CASE-ARC-11634-1] c 36 N88-14350
- Laser Doppler velocimeter multiplexer interface for simultaneous measured events [NASA-CASE-ARC-11536-1] c 33 N89-14384
- Frequency domain laser velocimeter signal processor [NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
- Three-dimensional laser velocimeter simultaneity detector [NASA-CASE-ARC-11876-1] c 36 N90-25340
- Laser velocimeter for near-surface measurements [NASA-CASE-ARC-11917-1] c 35 N91-15520
- LASER DRILLING**
- In-situ laser retorting of oil shale [NASA-CASE-LEW-12217-1] c 43 N78-14452
- LASER FUSION**
- Laser surface fusion of plasma sprayed ceramic turbine seals [NASA-CASE-LEW-13269-1] c 18 N83-20996
- LASER GUIDANCE**
- Scanning afocal laser velocimeter projection lens system [NASA-CASE-LAR-12328-1] c 36 N82-32712
- LASER GYROSCOPES**
- Optical gyroscope system [NASA-CASE-NPO-14258-1] c 35 N81-33448
- Laser pulse detection method and apparatus [NASA-CASE-NPO-16030-1] c 36 N84-25037
- LASER HEATING**
- Electric power generation system directory from laser power [NASA-CASE-NPO-13308-1] c 36 N75-30524
- Method and apparatus for shaping and enhancing acoustical levitation forces [NASA-CASE-MFS-25050-1] c 71 N81-15767
- LASER INTERFEROMETRY**
- Dual-beam skin friction interferometer [NASA-CASE-ARC-11354-1] c 74 N83-21949
- LASER MATERIALS**
- Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp [NASA-CASE-LAR-11341-1] c 36 N75-19655
- Solar pumped laser [NASA-CASE-LAR-12870-1] c 36 N84-16542
- LASER MODE LOCKING**
- Laser system with an antiresonant optical ring [NASA-CASE-HQN-10844-1] c 36 N75-19653
- Dually mode locked Nd:YAG laser [NASA-CASE-GSC-11746-1] c 36 N75-19654
- Length controlled stabilized mode-lock Nd:YAG laser [NASA-CASE-GSC-11571-1] c 36 N77-25499
- Geodetic distance measuring apparatus [NASA-CASE-GSC-12609-2] c 36 N83-29681
- Method and circuit for controlling the evolution time interval of a laser output pulse [NASA-CASE-LAR-13772-1] c 36 N89-28816
- LASER MODES**
- Optical pump and driver system for lasers [NASA-CASE-ERC-10283] c 16 N72-25485
- Acoustically controlled distributed feedback laser [NASA-CASE-NPO-13175-1] c 36 N75-31427
- LASER OUTPUTS**
- Method and apparatus for wavelength tuning of liquid lasers [NASA-CASE-ERC-10187] c 16 N69-31343
- Laser Doppler system for measuring three dimensional vector velocity Patent [NASA-CASE-MFS-20386] c 21 N71-19212
- Amplitude modulated laser transmitter Patent [NASA-CASE-XMS-04269] c 16 N71-22895
- Laser fluid velocity detector Patent [NASA-CASE-XAC-10770-1] c 16 N71-24828
- Laser calibrator Patent [NASA-CASE-XLA-03410] c 16 N71-25914
- Method and apparatus for optical modulating a light signal Patent [NASA-CASE-GSC-10216-1] c 23 N71-26722
- Laser machining apparatus Patent [NASA-CASE-HQN-10541-2] c 15 N71-27135
- Optical frequency waveguide and transmission system Patent [NASA-CASE-HQN-10541-4] c 16 N71-27183
- Laser communication system for controlling several functions at a location remote to the laser [NASA-CASE-LAR-10311-1] c 16 N73-16536
- Power supply for carbon dioxide lasers [NASA-CASE-GSC-11222-1] c 16 N73-32391
- Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control [NASA-CASE-NPO-11317-2] c 36 N74-13205
- Apparatus for scanning the surface of a cylindrical body [NASA-CASE-NPO-11861-1] c 36 N74-20009
- Optically detonated explosive device [NASA-CASE-NPO-11743-1] c 28 N74-27425
- Clear air turbulence detector [NASA-CASE-MFS-21244-1] c 36 N75-15028
- Dually mode locked Nd:YAG laser [NASA-CASE-GSC-11746-1] c 36 N75-19654
- Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp [NASA-CASE-LAR-11341-1] c 36 N75-19655
- Acoustically controlled distributed feedback laser [NASA-CASE-NPO-13175-1] c 36 N75-31427
- Optical noise suppression device and method --- laser light exposing film [NASA-CASE-MSC-12640-1] c 74 N76-31998
- Length controlled stabilized mode-lock Nd:YAG laser [NASA-CASE-GSC-11571-1] c 36 N77-25499
- Apparatus for photon excited catalysis [NASA-CASE-NPO-13566-1] c 25 N77-32255
- Method and apparatus for Doppler frequency modulation of radiation [NASA-CASE-NPO-14524-1] c 32 N80-24510
- High power metallic halide laser --- amplifying a copper chloride laser [NASA-CASE-NPO-14782-1] c 36 N82-28616
- Collimated beam manifold with the number of output beams variable at a given output angle [NASA-CASE-MFS-25312-1] c 74 N83-17305
- Method of and apparatus for double-exposure holographic interferometry [NASA-CASE-MFS-25405-1] c 35 N84-22929
- Method and apparatus for coating substrates using a laser [NASA-CASE-LEW-13526-1] c 36 N84-22944
- Ranging system which compares an object reflected component of a light beam to a reference component of the light beam [NASA-CASE-NPO-15865-1] c 74 N85-34629
- Projection lens scanning laser velocimeter system [NASA-CASE-ARC-11547-1] c 36 N87-17026
- Multiplex electric discharge gas laser system [NASA-CASE-NPO-16433-1] c 36 N87-23961
- Magnetically switched power supply system for lasers [NASA-CASE-NPO-16402-2] c 33 N88-24862
- Method and circuit for controlling the evolution time interval of a laser output pulse [NASA-CASE-LAR-13772-1] c 36 N89-28816
- Method and circuit for shaping laser output pulses [NASA-CASE-LAR-14203-1] c 36 N89-28817
- Laser velocimeter for near-surface measurements [NASA-CASE-ARC-11917-1] c 35 N91-15520
- Hanging drop crystal growth apparatus [NASA-CASE-MFS-26061-1] c 76 N91-16815
- Cladding for transverse-pumped solid-state laser [NASA-CASE-NPO-17355-1-CU] c 36 N91-17360
- Fiber optic sensing system [NASA-CASE-LEW-14795-1] c 74 N91-21871
- Synchronous strobe apparatus for flow visualization [NASA-CASE-LAR-14556-1] c 36 N91-25392
- Edge technique for measurement of laser frequency shifts including the Doppler shift [NASA-CASE-GSC-13343-1] c 36 N91-28557
- Multiperiod-grating surface-emitting lasers [NASA-CASE-NPO-17763-1-CU] c 36 N92-17862
- LASER PLASMAS**
- Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma [NASA-CASE-XNP-04167-3] c 36 N77-19416
- LASER POWER BEAMING**
- Long gain length solar pumped box laser [NASA-CASE-LAR-13256-1] c 36 N86-29204
- LASER PUMPING**
- Laser apparatus [NASA-CASE-GSC-12237-1] c 36 N80-14384
- Large volume multiple-path nuclear pumped laser [NASA-CASE-LAR-12592-1] c 36 N82-13415
- Solar pumped laser [NASA-CASE-LAR-12870-1] c 36 N84-16542
- Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array [NASA-CASE-NPO-17282-1-CU] c 36 N91-15528
- Cladding for transverse-pumped solid-state laser [NASA-CASE-NPO-17355-1-CU] c 36 N91-17360
- LASER RANGE FINDERS**
- Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers [NASA-CASE-GSC-12321-1] c 36 N82-16396
- Range and range rate system [NASA-CASE-MSC-20867-1] c 36 N88-24958

LASER RANGER/TRACKER

Method and apparatus for aligning a laser beam projector
Patent
[NASA-CASE-NPO-11087] c 23 N71-29125

LASER SPECTROMETERS

Method and apparatus for enhancing laser absorption
sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006

LASER SPECTROSCOPY

Stark effect spectrophone for continuous absorption
spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159

LASER WINDOWS

Optical scanner --- laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N78-17866

LASERS

Laser apparatus for removing material from rotating
objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
Optical probing of supersonic flows with statistical
correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520
Alignment apparatus using a laser having a
gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
Short range laser obstacle detector --- for surface
vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
Method and apparatus for generating coherent radiation
in the ultra-violet region and above by use of distributed
feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Wideband heterodyne receiver for laser communication
system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Method and apparatus for splitting a beam of energy
--- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
Shock isolator for operating a diode laser on a
closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Method of and apparatus for double-exposure
holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
Method and apparatus for coating substrates using a
laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
Means for phase locking the outputs of a surface emitting
laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862
Three-dimensional laser velocimeter simultaneity
detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340
Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N91-14001
Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392
Matching optics for Gaussian beams
[NASA-CASE-ARC-11892-1-SB] c 74 N92-16810

LASING
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204
Isotope separation using tuned laser and electron
beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732

LATCHES
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190

Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162
Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
Mechanical end joint system for structural column
elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
Latching mechanism for deployable/re-stowable
columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N91-23493
Quick action clamp
[NASA-CASE-LEW-14887-1] c 37 N91-27561
J-hook latching device
[NASA-CASE-GSC-13200-1] c 37 N92-21500

LATERAL CONTROL
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Leading edge flap system for aircraft control
augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

LATERAL STABILITY
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

LATEX
Molten salt pyrolysis of latex --- synthetic hydrocarbon
fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Process for preparation of large-particle-size
monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

LATHES
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
Lathe tool bit and holder for machining fiberglass
materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Universal precision sine bar attachment
[NASA-CASE-MFS-28253-1] c 37 N89-28831

LAUNCH ESCAPE SYSTEMS
Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199
Device for separating occupant from an ejection seat
Patent
[NASA-CASE-XMS-04625] c 05 N71-20718

LAUNCH VEHICLE CONFIGURATIONS
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

LAUNCH VEHICLES
A support technique for vertically oriented launch
vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
Method and apparatus for detection and location of
microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787
Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481

LAUNCHERS
Space probe/satellite ejection apparatus for
spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Space probe/satellite ejection apparatus for
spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
Electromagnetic Meissner effect launcher
[NASA-CASE-MFS-28323-1] c 14 N92-15081

LAUNCHING PADS
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Validation device for spacecraft checkout equipment
Patent
[NASA-CASE-XKS-10543] c 07 N71-26292

LAUNCHING SITES
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481

LAY-UP
Method of making a partial interlaminar separation
composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235

LAYERS
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365

LEACHING
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465

LEAD (METAL)
Lead-oxygen dc power supply system having a closed
loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
Catalyst surfaces for the chromous/chromic redox
couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

LEAD SULFIDES
Integrated photo-responsive metal oxide semiconductor
circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271

LEAD TELLURIDES
Bonding thermoelectric elements to nonmagnetic
refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Segmenting lead telluride-silicon germanium
thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037

LEADING EDGE FLAPS
Leading edge flap system for aircraft control
augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985

LEADING EDGES
Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
Leading edge curvature based on convective heating
Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793

LEAKAGE
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Method and apparatus for detection and location of
microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
Leak detector wherein a probe is monitored with
ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Method for detecting leaks in hermetically sealed
containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Method and apparatus for detecting gross leaks
Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225

A-96

Carbon granule probe microphone for leak detection --- recovery boilers
 [NASA-CASE-NPO-16027-1] c 35 N85-21597

Portable remote laser sensor for methane leak detection
 [NASA-CASE-NPO-15790-1] c 36 N85-21631

Fluid leak indicator
 [NASA-CASE-MSC-20783-1] c 35 N86-20756

Method of repairing hidden leaks in tubes
 [NASA-CASE-MFS-19796-1] c 37 N86-32736

Self-compensating solenoid valve
 [NASA-CASE-ARC-11620-1] c 37 N87-25573

High temperature flexible seal
 [NASA-CASE-LEW-14695-1] c 37 N90-23751

Dual diaphragm tank with telltale drain
 [NASA-CASE-MSC-21703-1] c 31 N91-25305

LEAST SQUARES METHOD
 Modified fast frequency acquisition via adaptive least squares algorithm
 [NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

Near real-time stereo vision system
 [NASA-CASE-NPO-18593-1-CU] c 74 N92-17864

LEG (ANATOMY)
 Actuator device for artificial leg
 [NASA-CASE-MFS-23225-1] c 52 N77-14735

Rotational joint assembly for the prosthetic leg
 [NASA-CASE-KSC-11004-1] c 54 N77-30749

Mechanical energy storage device for hip disarticulation
 [NASA-CASE-ARC-10916-1] c 52 N78-10686

Drop foot corrective device
 [NASA-CASE-LAR-12259-2] c 54 N86-22112

LENGTH
 Conductive gage for crack length measurement
 [NASA-CASE-LAR-14480-1-CU] c 39 N92-11374

LENSES
 High temperature lens construction Patent
 [NASA-CASE-XNP-04111] c 14 N71-15622

Image magnification adapter for cameras Patent
 [NASA-CASE-XMF-03844-1] c 14 N71-26474

Petzval type objective including field shaping lens Patent
 [NASA-CASE-GSC-10700] c 23 N71-30027

Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
 [NASA-CASE-GSC-11133-1] c 23 N72-11568

Plural beam antenna
 [NASA-CASE-GSC-11013-1] c 09 N73-19234

Spatial filter for Q-switched lasers
 [NASA-CASE-LEW-12164-1] c 36 N77-32478

Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
 [NASA-CASE-ARC-11039-1] c 74 N78-32854

Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
 [NASA-CASE-LAR-12251-1] c 74 N80-27185

Constant magnification optical tracking system
 [NASA-CASE-NPO-14813-1] c 74 N82-24072

Scanning afocal laser velocimeter projection lens system
 [NASA-CASE-LAR-12328-1] c 36 N82-32712

Interferometric angle monitor
 [NASA-CASE-GSC-12614-1] c 74 N83-32577

Projection lens scanning laser velocimeter system
 [NASA-CASE-ARC-11547-1] c 36 N87-17026

Dual mode laser velocimeter
 [NASA-CASE-ARC-11634-1] c 36 N88-14350

Portable dynamic fundus instrument
 [NASA-CASE-MSC-21675-1] c 52 N91-13865

Matching optics for Gaussian beams
 [NASA-CASE-ARC-11892-1-SB] c 74 N92-16810

LENTICULAR BODIES
 Space and atmospheric reentry vehicle Patent
 [NASA-CASE-XGS-00260] c 31 N70-37924

LEVEL (HORIZONTAL)
 Hot wire liquid level detector for cryogenic fluids Patent
 [NASA-CASE-XLE-00454] c 23 N71-17802

Rotary leveling base platform
 [NASA-CASE-ARC-10981-1] c 37 N78-27425

LEVEL (QUANTITY)
 Spherical tank gauge Patent
 [NASA-CASE-XMS-06236] c 14 N71-21007

Positive dc to positive dc converter Patent
 [NASA-CASE-XMF-14301] c 09 N71-23188

LEVELING
 Adjustable attitude guide device Patent
 [NASA-CASE-XLA-07911] c 15 N71-15571

Electrical switching device Patent
 [NASA-CASE-NPO-10037] c 09 N71-19610

Adjustable support
 [NASA-CASE-NPO-10721] c 15 N72-27484

Automatically operable self-leveling load table
 [NASA-CASE-MFS-22039-1] c 09 N75-12968

LEVERS

Preloaded latching device
 [NASA-CASE-MSC-21730-1] c 37 N91-23493

LEVITATION

Gas levitator having fixed levitation node for containerless processing
 [NASA-CASE-MFS-25509-1] c 35 N83-24828

Closed loop electrostatic levitation system
 [NASA-CASE-NPO-15553-1] c 33 N85-29142

Improved superconducting bearings
 [NASA-CASE-GSC-13346-1] c 37 N91-28578

LEVITATION MELTING

High temperature acoustic levitator
 [NASA-CASE-NPO-16022-1] c 71 N85-22105

Sample levitation and melt in microgravity
 [NASA-CASE-NPO-17022-1-CU] c 29 N87-25489

LIFE (DURABILITY)

Hollow rolling element bearings
 [NASA-CASE-LEW-11087-3] c 37 N74-21064

Method of increasing minority carrier lifetime in silicon web or the like
 [NASA-CASE-NPO-15530-1] c 76 N83-35888

Apparatus for disintegrating kidney stones
 [NASA-CASE-GSC-12652-1] c 52 N84-34913

Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
 [NASA-CASE-NPO-16337-1-CU] c 33 N87-22894

Arc-textured high emittance radiator surfaces
 [NASA-CASE-LEW-14679-1] c 27 N91-25296

Slow positron beam generator for lifetime studies
 [NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

LIFE DETECTORS

Use of the enzyme hexokinase for the reduction of inherent light levels
 [NASA-CASE-XGS-05533] c 04 N69-27487

Lyophilized reaction mixtures Patent
 [NASA-CASE-XGS-05532] c 06 N71-17705

LIFE RAFTS

Life raft Patent
 [NASA-CASE-XMS-00863] c 05 N70-34857

Life raft stabilizer
 [NASA-CASE-MSC-12393-1] c 02 N73-26006

Modification of one man life raft
 [NASA-CASE-LAR-10241-1] c 54 N74-14845

LIFE SUPPORT SYSTEMS

Shock absorbing support and restraint means Patent
 [NASA-CASE-XMS-01240] c 05 N70-35152

Portable environmental control system Patent
 [NASA-CASE-XMS-09632-1] c 05 N71-11203

Extravehicular tunnel suit system Patent
 [NASA-CASE-MSC-12243-1] c 05 N71-24728

Foreshortened convolute section for a pressurized suit Patent
 [NASA-CASE-XMS-09637-1] c 05 N71-24730

Orbital escape device Patent
 [NASA-CASE-XMS-06162] c 31 N71-28851

Specialized halogen generator for purification of water Patent
 [NASA-CASE-XLA-08913] c 14 N71-28933

Life support system
 [NASA-CASE-MSC-12411-1] c 05 N72-20096

Air removal device
 [NASA-CASE-XLA-08914] c 15 N73-12492

Space suit
 [NASA-CASE-MSC-12609-1] c 05 N73-32012

Catalyst cartridge for carbon dioxide reduction unit
 [NASA-CASE-LAR-10551-1] c 25 N74-12813

Helmet feedport
 [NASA-CASE-XMS-09653] c 54 N78-17680

Cooling system for removing metabolic heat from an hermetically sealed spacesuit
 [NASA-CASE-ARC-11059-1] c 54 N78-32721

Air removal device --- life support systems
 [NASA-CASE-XLA-08914-2] c 25 N82-21269

Suitport extra-vehicular access facility
 [NASA-CASE-ARC-11635-1] c 18 N90-16860

Method and apparatus for bio-regenerative life support system
 [NASA-CASE-MSC-21629-1] c 54 N91-31803

LIFT

Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
 [NASA-CASE-LAR-13870-1] c 05 N90-15094

Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
 [NASA-CASE-LAR-13870-1-CU] c 05 N92-21587

LIFT DEVICES

Device for handling heavy loads
 [NASA-CASE-XNP-04969] c 11 N69-27466

Recoverable rocket vehicle Patent
 [NASA-CASE-XMF-00389] c 31 N70-34176

Direct lift control system Patent
 [NASA-CASE-LAR-10249-1] c 02 N71-26110

Ferry system
 [NASA-CASE-LAR-10574-1] c 11 N73-13257

High lift aircraft --- with improved stability, control, performance, and noise characteristics
 [NASA-CASE-LAR-11252-1] c 05 N75-25914

Device for installing rocket engines
 [NASA-CASE-MFS-19220-1] c 20 N76-22296

Vortex-lift roll-control device
 [NASA-CASE-LAR-11868-2] c 08 N79-14108

Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
 [NASA-CASE-LAR-13870-1] c 05 N90-15094

Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
 [NASA-CASE-LAR-13870-1-CU] c 05 N92-21587

LIFT DRAG RATIO

Ring wing tension vehicle Patent
 [NASA-CASE-XLA-04901] c 31 N71-24315

Annular wing
 [NASA-CASE-FRC-11007-2] c 05 N82-26277

Slotted variable camber flap
 [NASA-CASE-LAR-12541-1] c 05 N84-22551

Over-the-wing propeller
 [NASA-CASE-LAR-13134-2] c 07 N87-16828

LIFTING BODIES

Recoverable rocket vehicle Patent
 [NASA-CASE-XMF-00389] c 31 N70-34176

Lifting body Patent Application
 [NASA-CASE-FRC-10063] c 01 N71-12217

Lift balancing device
 [NASA-CASE-LAR-10348-1] c 11 N73-12264

Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
 [NASA-CASE-LAR-13870-1-CU] c 05 N92-21587

LIFTING REENTRY VEHICLES

Space and atmospheric reentry vehicle Patent
 [NASA-CASE-XGS-00260] c 31 N70-37924

Variable geometry manned orbital vehicle Patent
 [NASA-CASE-XLA-03691] c 31 N71-15674

Flight craft Patent
 [NASA-CASE-XAC-02058] c 02 N71-16087

LIFTING ROTORS

High lift, low pitching moment airfoils
 [NASA-CASE-LAR-13215-1] c 02 N89-14224

LIGANDS

Carboranyl-methylene-substituted phosphazenes and polymers thereof
 [NASA-CASE-ARC-11370-1] c 27 N84-22750

LIGHT (VISIBLE RADIATION)

Anti-glare improvement for optical imaging systems Patent
 [NASA-CASE-NPO-10337] c 14 N71-15604

Maksutov spectrograph Patent
 [NASA-CASE-XLA-10402] c 14 N71-29041

Combustion detector
 [NASA-CASE-LAR-10739-1] c 14 N73-16484

Light transmitting window assembly
 [NASA-CASE-MSC-18417-1] c 74 N85-29750

Schlieren system for visualizing the flow within a pipe of circular cross-section
 [NASA-CASE-LAR-13944-1] c 35 N92-11336

LIGHT AIRCRAFT

Direct lift control system Patent
 [NASA-CASE-LAR-10249-1] c 02 N71-26110

LIGHT BEAMS

Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
 [NASA-CASE-XGS-08269] c 23 N71-26206

Multiple hologram recording and readout system Patent
 [NASA-CASE-ERC-10151] c 16 N71-29131

Rhomboid prism pair for rotating the plane of parallel light beams
 [NASA-CASE-ARC-11311-1] c 74 N83-13978

Collimated beam manifold with the number of output beams variable at a given output angle
 [NASA-CASE-MFS-25312-1] c 74 N83-17305

Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
 [NASA-CASE-NPO-15865-1] c 74 N85-34629

Double window viewing chamber assembly
 [NASA-CASE-MFS-28057-1] c 09 N87-14355

Laser schlieren crystal monitor
 [NASA-CASE-MFS-28060-1] c 76 N87-25862

Laser velocimeter for near-surface measurements
 [NASA-CASE-ARC-11917-1] c 35 N91-15520

Synchronous strobe apparatus for flow visualization
 [NASA-CASE-LAR-14556-1] c 36 N91-25392

Matching optics for Gaussian beams
 [NASA-CASE-ARC-11892-1-SB] c 74 N92-16810

LIGHT EMISSION

Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
 [NASA-CASE-LAR-13963-1] c 76 N90-24150

LIGHT EMITTING DIODES

Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545

Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733

Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139

Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960

Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588

Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871

LIGHT GAS GUNS
Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578

LIGHT MODULATION
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605

Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479

Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722

Lamp modulator
[NASA-CASE-KSC-10565] c 09 N72-25250

Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053

Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510

Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900

Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N91-32925

All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808

Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-17675

LIGHT SCATTERING
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874

A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253

Real time pre-detection dynamic range compression
[NASA-CASE-NPO-18098-1-CU] c 74 N91-23890

LIGHT SCATTERING METERS
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865

LIGHT SOURCES
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331

High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312

Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089

Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821

Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323

Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411

Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214

Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463

Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089

Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250

Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318

Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941

Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388

LIGHT TRANSMISSION
Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565

Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365

Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175

Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042

Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695

Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784

Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436

Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950

Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879

Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072

Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304

Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N91-27957

LIGHT VALVES
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

LIGHTING EQUIPMENT
Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787

Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227

Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315

Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N91-28727

LIGHTNING
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175

Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110

Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319

Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246

Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337

Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305

Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779

Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083

Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661

LIMBS (ANATOMY)
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772

Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

LIMITER CIRCUITS
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084

Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844

Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895

Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096

Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333

LINE OF SIGHT
EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879

LINE SPECTRA
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015

Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679

LINEAR ACCELERATORS
Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962

LINEAR ARRAYS
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288

Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960

LINEAR CIRCUITS
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

LINEAR INTEGRATED CIRCUITS
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

LINEAR POLARIZATION
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488

Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N92-22034

LINEAR PROGRAMMING
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

LINEAR RECEIVERS
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233

LINEAR SYSTEMS
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503

A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254

Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337

LINEARITY
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982

Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045

Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067

Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284

Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA 1.71:NPO-15494-2] c 35 N85-34373

Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742

Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904

Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657

LININGS
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453

Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577

Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818

Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672

Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824

Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586

LINKAGES
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224

Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377

Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382

Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087

Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582

Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660

Skin friction balance
[NASA-CASE-LAR-13710-1] c 35 N90-17117

Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154

LIQUEFACTION
Ophthalmic liquefaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

LIQUID ATOMIZATION
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

LIQUID BEARINGS
High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359

- Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608
- LIQUID CHROMATOGRAPHY**
Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431
- LIQUID COOLING**
Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214
Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684
Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586
- LIQUID CRYSTALS**
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-17675
- LIQUID FILLED SHELLS**
Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
- LIQUID FLOW**
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
Ablative system
[NASA-CASE-LEW-10359-2] c 33 N73-25952
Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c 14 N73-27378
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
Degassing and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
- Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
- LIQUID HELIUM**
Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
- LIQUID HYDROGEN**
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495
- LIQUID INJECTION**
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
- LIQUID LASERS**
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
- LIQUID LEVELS**
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
- LIQUID METALS**
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
Arc spray fabrication of metal matrix composite monotape
[NASA-CASE-LEW-13828-1] c 24 N85-30027
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
- LIQUID NITROGEN**
Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484
- LIQUID OXYGEN**
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223
- Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974
- LIQUID PHASES**
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289
- LIQUID PROPELLANT ROCKET ENGINES**
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
- LIQUID ROCKET PROPELLANTS**
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
Rocket motor system Patent
[NASA-CASE-XLE-00323] c 28 N70-38505
High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925
High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N92-10054
Method for providing real-time control of a gaseous propellant rocket propulsion system
[NASA-CASE-MSC-21542-1] c 20 N92-15122
- LIQUID SLOSHING**
Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569

Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387

LIQUID SODIUM
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494

LIQUID-GAS MIXTURES
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Air removal device --- life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269

LIQUID-SOLID INTERFACES
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713

LIQUID-VAPOR INTERFACES
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

LIQUIDS
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363
Ablative system
[NASA-CASE-LEW-10359] c 33 N72-25911
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511

LITHIUM
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621
Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
[NASA-CASE-LEW-14973-1] c 44 N92-10222

LITHIUM ALLOYS
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

LITHIUM COMPOUNDS
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029

LOAD DISTRIBUTION (FORCES)
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705

Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
Device for use in loading tension members --- characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c 14 N75-24794
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
Method of recertifying a loaded bearing member using a phase point
[NASA-CASE-LAR-14741-1] c 39 N92-11384

LOAD TESTING MACHINES
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441
Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540
System for testing bearings
[NASA-CASE-MFS-28589-1] c 37 N92-17584

LOAD TESTS
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430

LOADING OPERATIONS
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

LOADS (FORCES)
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17451
Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288
Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463
Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N91-21539
Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492
Power saw
[NASA-CASE-MSC-21469-1] c 37 N91-31655
Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N92-10185
Method of recertifying a loaded bearing member using a phase point
[NASA-CASE-LAR-14741-1] c 39 N92-11384
Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007
Automatic locking orthotic knee device
[NASA-CASE-MFS-28633-1] c 54 N92-17866

LOCAL AREA NETWORKS
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776

LOCATES SYSTEM
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250

LOCKING
Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
Variable length strut with longitudinal compliance and locking capability
[NASA-CASE-MFS-25907-1] c 37 N85-34401
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610
System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N91-26543
Quick action clamp
[NASA-CASE-LEW-14887-1] c 37 N91-27561
Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N91-28579
Quick application/release nut with engagement indicator
[NASA-CASE-MSC-21799-1] c 37 N92-11359
Automatic locking orthotic knee device
[NASA-CASE-MFS-28633-1] c 54 N92-17866
Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N92-21728

LOCKS (FASTENERS)
Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829
Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180
Spline-locking payload fastener
[NASA-CASE-GSC-13378-1] c 37 N91-28581

LOCOMOTION
Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746

SUBJECT INDEX

Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119

Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

Treadmill for space flight
[NASA-CASE-MSC-21752-1] c 54 N92-17910

LOGARITHMIC RECEIVERS
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339

LOGARITHMS
Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173

LOGIC CIRCUITS
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148

Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502

Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423

Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125

Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494

Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505

AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910

Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579

Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602

Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751

Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772

Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650

BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890

Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000

Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103

Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374

Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236

Logical function generator
[NASA-CASE-XLA-05099] c 09 N73-13209

A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836

Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957

Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342

Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345

Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310

Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N91-13888

Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693

Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459

Reconfigurable fuzzy cell
[NASA-CASE-MSC-21613-1] c 61 N92-10331

LOGIC PROGRAMMING
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525

LONGERONS

Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791

Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352

Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

LONGITUDINAL CONTROL

Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581

Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152

Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314

Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

LONGITUDINAL STABILITY

Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

LOOK ANGLES (ELECTRONICS)

Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

LOOP ANTENNAS

Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202

Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113

LOOPS

Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647

Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609

Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171

High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865

Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336

Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626

Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950

Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302

Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133

LOUDNESS

Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522

LOUVERS

Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204

LOW ASPECT RATIO

Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286

Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858

LOW CONDUCTIVITY

High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480

LOW COST

Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635

Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609

Large TV display system
[NASA-CASE-NPO-16932-1-CU] c 33 N87-15413

Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N92-15620

LOW CURRENTS

Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338

LOW DENSITY MATERIALS

Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037

LOW TEMPERATURE TESTS

Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c 37 N76-19436

Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184

Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915

Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116

Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650

LOW FREQUENCIES

Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794

Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184

LOW GRAVITY MANUFACTURING

Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189

Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828

Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650

Apparatus ad method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944

Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489

LOW MOLECULAR WEIGHTS

Process for preparation of high-molecular-weight polyaryloxyisilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807

LOW NOISE

Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229

Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512

Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887

Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596

LOW PASS FILTERS

Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097

Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417

Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684

Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712

LOW PRESSURE

Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546

Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450

Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747

LOW SPEED

Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674

RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863

LOW TEMPERATURE

Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894

Flexible diaphragm-extreme temperature usage
[NASA-CASE-MSC-20797-2] c 35 N91-21494

LOW TEMPERATURE ENVIRONMENTS

Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986

LOW TEMPERATURE TESTS

Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659

Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234

Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221

LOW THRUST
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

LOW VACUUM
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673

LOW VOLTAGE
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

LOWER BODY NEGATIVE PRESSURE
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803

LUBRICANTS
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058

LUBRICATING OILS
Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570

LUBRICATION
Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
Pretreatment of lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423

LUBRICATION SYSTEMS
Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048
Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467

LUGS
Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889

LUMINAIRES
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
Lamp modulator
[NASA-CASE-KSC-10565] c 09 N72-25250
Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427

LUMINANCE
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427

LUMINESCENCE
Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950

LUMINOSITY
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976

LUMINOUS INTENSITY
Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416

Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

LUMPING
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

LUNAR BASES
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

LUNAR COMMUNICATION
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171

LUNAR COMPOSITION
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765

LUNAR EXPLORATION
Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171

LUNAR GRAVITATION
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474

LUNAR GRAVITY SIMULATOR
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786

LUNAR LANDING
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966

LUNAR LOGISTICS
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

LUNAR ROCKS
Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
Method for producing oxygen from lunar materials
[NASA-CASE-MSC-21759-1] c 25 N92-12079

LUNAR SOIL
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011
Method for producing oxygen from lunar materials
[NASA-CASE-MSC-21759-1] c 25 N92-12079

LUNAR SURFACE
Lunar radiator shade
[NASA-CASE-MSC-21868-1] c 54 N92-11639
Lunar radiator shade
[NASA-CASE-MSC-21868-1] c 54 N92-21589

LUNAR SURFACE VEHICLES
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091

LUNGS
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

M

MACH NUMBER
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
Improved method and apparatus for Mach number change in wind tunnel
[NASA-CASE-LAR-13548-1] c 09 N91-28175

MACHINE LEARNING
Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385
An accelerated training method for back propagation networks
[NASA-CASE-MSC-21625-1] c 53 N91-28730

MACHINE TOOLS

Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283
Geneva mechanism --- including star wheel and driver
[NASA-CASE-NPO-13281-1] c 37 N75-13266
Zero torque gear head wrench
[NASA-CASE-NPO-13059-1] c 37 N76-20480
Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360

MACHINERY
Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334

MACHINING
Laser machining apparatus Patent
[NASA-CASE-HON-10541-2] c 15 N71-27135
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
Plug-type heat flux gauge
[NASA-CASE-LEW-14967-1] c 35 N91-31608

MAGNESIUM
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446

MAGNESIUM ALLOYS
Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446

MAGNESIUM OXIDES
Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-2-CU] c 76 N92-22040
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-3-CU] c 76 N92-22041

MAGNET COILS
Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008

MAGNETIC AMPLIFIERS
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338

MAGNETIC BEARINGS
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

Improved superconducting bearings
[NASA-CASE-GSC-13346-1] c 37 N91-28578

MAGNETIC CHARGE DENSITY
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043

MAGNETIC CIRCUITS
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043

MAGNETIC COILS
Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

MAGNETIC CONTROL
Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464
Low temperature latching solenoid
[NASA-CASE-MS-18106-1] c 33 N82-11357

MAGNETIC CORES
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928
Electromagnetic attachment mechanism
[NASA-CASE-MS-21463-1] c 37 N91-23490

MAGNETIC DIPOLES
Balance torque meter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

MAGNETIC DISKS
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819

MAGNETIC FIELD CONFIGURATIONS
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905

MAGNETIC FIELDS
Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962

Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099

Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
Balance torque meter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
Magnetic drive coupling
[NASA-CASE-MS-21171-1] c 37 N88-23973
Magnetic attachment mechanism
[NASA-CASE-MS-21095-1] c 37 N89-12866
Electromagnetic Meissner effect launcher
[NASA-CASE-MFS-28323-1] c 14 N92-15081

MAGNETIC FILMS
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MAGNETIC FLUX
Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516
Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361
Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

MAGNETIC FORMING

Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865

MAGNETIC INDUCTION
Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
Magnetic drive coupling
[NASA-CASE-MS-21171-1] c 37 N88-23973

MAGNETIC LENSES

Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325

MAGNETIC MATERIALS

Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120

MAGNETIC MEASUREMENT

Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390

MAGNETIC PERMEABILITY

Linear motion valve
[NASA-CASE-MS-20148-1] c 37 N85-29284

MAGNETIC POLES

Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

MAGNETIC PUMPING

Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516
Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361
Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

MAGNETIC RECORDING

Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MAGNETIC SIGNALS

Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467

MAGNETIC STORAGE

Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365

MAGNETIC SUSPENSION

- Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N91-21539
Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N91-21824

MAGNETIC SWITCHING

- Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000
Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862

MAGNETIC TAPE TRANSPORTS

- Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479

MAGNETIC TAPES

- Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MS-C-14219-1] c 32 N74-27612
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

MAGNETIC TRANSDUCERS

- Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397

MAGNETIZATION

- Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293

MAGNETO-OPTICS

- Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205

MAGNETOACOUSTIC WAVES

- Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170

MAGNETOACOUSTICS

- Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527

MAGNETOHYDRODYNAMIC FLOW

- Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
Hybrid plume plasma rocket
[NASA-CASE-MS-C-20476-2] c 20 N89-25279

MAGNETOHYDRODYNAMIC GENERATORS

- Magneto-hydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
Slug flow magneto-hydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Two-fluid magneto-hydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573

MAGNETOMETERS

- Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962

Optically pumped resonance magnetometer for determining vectoral components in a spatial coordinate system Patent

- [NASA-CASE-XGS-04879] c 14 N71-20428
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

MAGNETOSTRICTION

- Magnetostrictive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N92-15331

MAGNETRON SPUTTERING

- Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543

MAGNETRONS

- Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841

MAGNETS

- Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
Linear motion valve
[NASA-CASE-MS-C-20148-1] c 37 N85-29284

MAGNIFICATION

- Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N90-27595
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809

MAGNITUDE

- Balance torque meter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

MAINTENANCE

- Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Bonding or repairing process
[NASA-CASE-MS-C-12357] c 15 N73-12489
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520

- Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MS-C-18736-1] c 24 N83-13172
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Three-dimensional cell to tissue assembly process
[NASA-CASE-MS-C-21559-1] c 51 N91-13860
High-pressure promoted combustion chamber
[NASA-CASE-MS-C-21470-1] c 09 N91-21157

MALEATES

- Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909

MALFUNCTIONS

- Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807

MAMMALS

- A culture vessel with large perfusion area to volume ratio
[NASA-CASE-MS-C-21662-1] c 51 N91-17531
Spiral vane bioreactor
[NASA-CASE-MS-C-21361-1] c 51 N91-21701

MAN MACHINE SYSTEMS

- Compliant walker
[NASA-CASE-GSC-13348-2] c 52 N91-29714

MANDRELS

- Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

MANEUVERABILITY

- Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479

MANGANESE

- Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MANIFOLDS

- Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N92-10054

MANIPULATORS

- Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MS-C-14245-1] c 18 N75-27041
Cooperative multi-axis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286

Sequentially deployable maneuverable tetrahedral beam
 [NASA-CASE-LAR-13098-1] c 31 N86-19479
 Apparatus for adapting an end effector device remotely controlled manipulator arm
 [NASA-CASE-MFS-25949-1] c 37 N86-19603
 Self-locking telescoping manipulator arm
 [NASA-CASE-MFS-25906-1] c 37 N86-20789
 Magnetic spin reduction system for free spinning objects
 [NASA-CASE-MFS-25966-1] c 16 N86-26352
 Orbital maneuvering end effectors
 [NASA-CASE-MFS-28161-1] c 37 N87-18817
 Space spider crane
 [NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
 Mobile remote manipulator system for a tetrahedral truss
 [NASA-CASE-MSC-20985-1] c 18 N88-26398
 Space station erectable manipulator placement system
 [NASA-CASE-MSC-21096-1] c 18 N89-12621
 Improved docking alignment system
 [NASA-CASE-MSC-21372-1] c 35 N89-12842
 Magnetic attachment mechanism
 [NASA-CASE-MSC-21095-1] c 37 N89-12866
 Robust high-performance control for robotic manipulators
 [NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
 Distributed proximity sensor system
 [NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
 Gripping device
 [NASA-CASE-MSC-21365-1] c 37 N90-20408
 Spiral lead platen robotic end effector
 [NASA-CASE-LAR-13855-1] c 37 N91-14615
 Multi-fingered robotic hand
 [NASA-CASE-NPO-15958-2] c 37 N91-14616
 Method and apparatus for configuration control of redundant robots
 [NASA-CASE-NPO-17801-1-CU] c 37 N91-21544
 Synchronized computational architecture for generalized bilateral control of robot arms
 [NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
 Telerobot control system
 [NASA-CASE-NPO-18116-1-CU] c 37 N91-32509
 A generalized compliant motion primitive
 [NASA-CASE-NPO-18134-1-CU] c 37 N91-32510

MANNED ORBITAL LABORATORIES
 Erectable modular space station Patent
 [NASA-CASE-XLA-00678] c 31 N70-34296
 Radial module space station Patent
 [NASA-CASE-XMS-01906] c 31 N70-41373
 Rotating space station simulator Patent
 [NASA-CASE-XLA-03127] c 11 N71-10776

MANNED SPACE FLIGHT
 Transfer valve Patent
 [NASA-CASE-XAC-01158] c 15 N71-23051
 Air removal device
 [NASA-CASE-XLA-08914] c 15 N73-12492

MANNED SPACECRAFT
 Space capsule Patent
 [NASA-CASE-XLA-00149] c 31 N70-37938
 Variable-geometry winged reentry vehicle Patent
 [NASA-CASE-XLA-00241] c 31 N70-37986
 Vehicle parachute and equipment jettison system Patent
 [NASA-CASE-XLA-00195] c 02 N70-38009
 Space capsule Patent
 [NASA-CASE-XLA-01332] c 31 N71-15664
 Artificial gravity spin deployment system Patent
 [NASA-CASE-XNP-02595] c 31 N71-21881
 Specialized halogen generator for purification of water Patent
 [NASA-CASE-XLA-08913] c 14 N71-28933
 Collapsible Apollo couch
 [NASA-CASE-MSC-13140] c 05 N72-11085
 Space vehicle with artificial gravity and earth-like environment
 [NASA-CASE-LEW-11101-1] c 31 N73-32750
 Hatch cover
 [NASA-CASE-MSC-21356-1] c 18 N90-19278

MANOMETERS
 Magnetically centered liquid column float Patent
 [NASA-CASE-XAC-00030] c 14 N70-34820
 Apparatus for absolute pressure measurement
 [NASA-CASE-LAR-10000] c 14 N73-30394

MANUAL CONTROL
 Multiple circuit switch apparatus with improved pivot actuator structure Patent
 [NASA-CASE-XAC-03777] c 10 N71-15909
 Null device for hand controller Patent
 [NASA-CASE-XLA-01808] c 15 N71-20740
 Manually actuated heat pump
 [NASA-CASE-NPO-10677] c 05 N72-11084
 Numerical computer peripheral interactive device with manual controls
 [NASA-CASE-NPO-11497] c 08 N73-25206

Solid state controller three axes controller
 [NASA-CASE-MSC-12394-1] c 08 N74-10942
 G-load measuring and indicator apparatus
 [NASA-CASE-ARC-10806-1] c 35 N75-29381
 Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
 [NASA-CASE-LAR-12412-1] c 08 N82-24205

MANUFACTURING
 A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
 [NASA-CASE-ERC-10072] c 09 N70-11148
 Indexed keyed connection Patent
 [NASA-CASE-XMS-02532] c 15 N70-41808
 Method of making screen by casting Patent
 [NASA-CASE-XLE-00953] c 15 N71-15966
 Space manufacturing machine Patent
 [NASA-CASE-MFS-20410] c 15 N71-19214
 Fluid containers and resealable septum therefor Patent
 [NASA-CASE-NPO-10123] c 15 N71-24835
 Method of making a solid propellant rocket motor Patent
 [NASA-CASE-XLA-04126] c 28 N71-26779
 Method of making shielded flat cable Patent
 [NASA-CASE-MFS-13687] c 09 N71-28691
 Fabrication of controlled-porosity metals Patent
 [NASA-CASE-XNP-04339] c 17 N71-29137
 Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
 [NASA-CASE-GSC-11367-1] c 44 N74-19692
 Apparatus for forming drive belts
 [NASA-CASE-NPO-13205-1] c 31 N74-32917
 Bonding method in the manufacture of continuous regression rate sensor devices
 [NASA-CASE-LAR-10337-1] c 24 N75-30260
 Process for fabricating SiC semiconductor devices
 [NASA-CASE-LEW-12094-1] c 76 N76-25049
 Solar hydrogen generator
 [NASA-CASE-LAR-11361-1] c 44 N77-22607
 Method of forming shrink-fit compression seal
 [NASA-CASE-LAR-11563-1] c 37 N77-23482
 Method for making a hot wire anemometer and product thereof
 [NASA-CASE-ARC-10900-1] c 35 N77-24454
 Aluminium or copper substrate panel for selective absorption of solar energy
 [NASA-CASE-MFS-23518-3] c 44 N80-16452
 Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
 [NASA-CASE-NPO-10424-1] c 27 N81-24258
 Inorganic spark chamber frame and method of making the same
 [NASA-CASE-GSC-12354-1] c 35 N82-24471
 Photoelectric detection system --- manufacturing automation
 [NASA-CASE-MFS-23776-1] c 33 N82-28545
 Glass heating panels and method for preparing the same from architectural reflective glass
 [NASA-CASE-NPO-15753-1] c 27 N84-33589
 The 1-(diorganoxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
 [NASA-CASE-ARC-11425-2] c 23 N87-28605
 New core design for use with precision composite reflectors
 [NASA-CASE-NPO-17858-1-CU] c 24 N90-26880

MAPPING
 Random function tracer Patent
 [NASA-CASE-XLA-01401] c 15 N71-21179
 Method and apparatus for mapping planets
 [NASA-CASE-NPO-11001] c 07 N72-21118
 Seismic vibration source
 [NASA-CASE-NPO-14112-1] c 46 N79-22679
 Dual aperture multispectral Schmidt objective
 [NASA-CASE-GSC-12756-1] c 74 N84-23248
 Method and apparatus for contour mapping using synthetic aperture radar
 [NASA-CASE-NPO-15939-1] c 43 N86-19711
 Programmable remapper with single flow architecture
 [NASA-CASE-MSC-21481-1] c 60 N91-13890
 Network of dedicated processors for finding lowest-cost map path
 [NASA-CASE-NPO-17716-1-CU] c 62 N92-15620

MAPS
 Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
 [NASA-CASE-LAR-10626-1] c 19 N74-21015
 Optical process for producing classification maps from multispectral data
 [NASA-CASE-MSC-14472-1] c 43 N77-10584

MASERS
 Segmented superconducting magnet for a broadband traveling wave maser Patent
 [NASA-CASE-XGS-10518] c 16 N71-28554

Maser for frequencies in the 7-20 GHz range
 [NASA-CASE-NPO-11437] c 16 N72-28521
 Reflected-wave maser --- low noise amplifier
 [NASA-CASE-NPO-13490-1] c 36 N76-31512
 Multistation refrigeration system
 [NASA-CASE-NPO-13839-1] c 31 N78-25256
 External bulb variable volume maser
 [NASA-CASE-GSC-12334-1] c 36 N79-14362
 Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
 [NASA-CASE-NPO-14254-1] c 36 N80-18372
 Precise RF timing signal distribution to remote stations --- fiber optics
 [NASA-CASE-NPO-14749-1] c 32 N81-14186
 Resonant isolator for maser amplifier
 [NASA-CASE-NPO-15201-1] c 36 N83-35350
 Maser cavity servo-tuning system
 [NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

MASKING
 Masking device Patent
 [NASA-CASE-XNP-02092] c 15 N70-42033
 High resolution developing of photosensitive resists Patent
 [NASA-CASE-XGS-04993] c 14 N71-17574
 Low defect, high purity crystalline layers grown by selective deposition
 [NASA-CASE-NPO-15813-1] c 76 N85-30922
 Method for maintaining precise suction strip porosities
 [NASA-CASE-LAR-13638-1] c 31 N90-19427

MASKS
 Ion beam sputter etching
 [NASA-CASE-LEW-13899-1] c 31 N87-21160

MASS
 Mass measuring system Patent
 [NASA-CASE-XMS-03371] c 05 N70-42000
 Dynamic vibration absorber Patent
 [NASA-CASE-LAR-10083-1] c 15 N71-27006
 Fluid mass sensor for a zero gravity environment
 [NASA-CASE-MSC-14653-1] c 35 N77-19385

MASS BALANCE
 Two-plane balance Patent
 [NASA-CASE-XAC-00073] c 14 N70-34813
 Apparatus for testing a pressure responsive instrument Patent
 [NASA-CASE-XMF-04134] c 14 N71-23755

MASS DISTRIBUTION
 Propellant mass distribution metering apparatus Patent
 [NASA-CASE-NPO-10185] c 10 N71-26339

MASS FLOW
 Rocket engine injector Patent
 [NASA-CASE-XLE-03157] c 28 N71-24736
 Nuclear mass flowmeter
 [NASA-CASE-MFS-20485] c 14 N72-11365
 Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
 [NASA-CASE-LAR-10578-1] c 12 N73-25262

MASS SPECTROMETERS
 Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
 [NASA-CASE-LAR-10180-1] c 06 N71-13461
 Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
 [NASA-CASE-XNP-01056] c 14 N71-23041
 Ion microprobe mass spectrometer for analyzing fluid materials Patent
 [NASA-CASE-ERC-10014] c 14 N71-28863
 Orifice gross leak tester Patent
 [NASA-CASE-ERC-10150] c 14 N71-28992
 Method and apparatus for determining the contents of contained gas samples
 [NASA-CASE-GSC-10903-1] c 14 N73-12444
 Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
 [NASA-CASE-XNP-04231] c 14 N73-32325
 Fast scan control for deflection type mass spectrometers
 [NASA-CASE-LAR-11428-1] c 35 N74-34857
 Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
 [NASA-CASE-NPO-13663-1] c 35 N77-14406
 Method for fabricating a mass spectrometer inlet leak
 [NASA-CASE-GSC-12077-1] c 35 N77-24455
 Dual acting slit control mechanism
 [NASA-CASE-LAR-11370-1] c 35 N80-28686
 Ion mass spectrometer
 [NASA-CASE-NPO-15423-1] c 35 N84-28016
 Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
 [NASA-CASE-NPO-16989-1-CU] c 35 N91-14587

MASS SPECTROSCOPY

- Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393
- Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
- Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

MASSIVELY PARALLEL PROCESSORS

- Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378

MATERIAL ABSORPTION

- Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483

MATERIALS

- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MS-C-25707-1] c 35 N85-29214

MATERIALS HANDLING

- Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
- Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
- Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
- Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
- Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628
- Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
- Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
- Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
- Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
- Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
- Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900
- Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
- Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

MATERIALS RECOVERY

- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
- Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
- Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

MATERIALS SCIENCE

- Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
- Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486

MATERIALS TESTS

- Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
- Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
- Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
- Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132
- Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
- Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
- Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476
- Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

MATHEMATICAL LOGIC

- Logical function generator
[NASA-CASE-XLA-05099] c 09 N73-13209

MATHEMATICAL MODELS

- Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MS-C-21465-1] c 61 N91-14741
- Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers
[NASA-CASE-LEW-15223-1] c 76 N91-26967

MATRICES (CIRCUITS)

- Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
- Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
- Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
- Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
- Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
- Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041
- Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
- High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

MATRICES (MATHEMATICS)

- Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918
- An accelerated training method for back propagation networks
[NASA-CASE-MS-C-21625-1] c 53 N91-28730
- Neural-network dedicated processor for solving competitive assignment problems
[NASA-CASE-NPO-17781-1-CU] c 60 N92-17884

MATRIX MATERIALS

- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
- Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
- Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559
- Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
[NASA-CASE-LAR-13562-2] c 24 N91-25199
- Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066
- Low toxicity high temperature PMR polyimides
[NASA-CASE-LAR-14639-1] c 27 N92-11199

MCLEOD GAGES

- Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
- Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450

MEAN SQUARE VALUES

- Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320

MEASURING INSTRUMENTS

- Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
- Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179
- Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
- Parallel motion suspension device Patent
[NASA-CASE-XNP-01567] c 15 N70-41310
- Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
- Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
- Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
- Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
- Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
- Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
- Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992
- Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
- Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
- Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
- RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863

- Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
- Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
- Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
- Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
- Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
- Resonant infrasonic gauging apparatus
[NASA-CASE-MS-C-11847-1] c 14 N72-11363
- Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379
- Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
- Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
- Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
- Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
- Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
- Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
- Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
- Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476
- Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
- Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486
- RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
- Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
- Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476
- Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
- Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
- Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MS-C-13999-1] c 52 N74-26626
- Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862
- Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
- Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877
- Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
- Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382
- Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
- Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
- Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
- Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031
- Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
- Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
- Condition sensor system and method
[NASA-CASE-MS-C-14805-1] c 54 N78-32720
- Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
- Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
- Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
- Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
- Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
- Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439

Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709
Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357
Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580
Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959
Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941
Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149
Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150
Universal precision sine bar attachment
[NASA-CASE-MFS-28253-1] c 37 N89-28831
Skin friction balance
[NASA-CASE-LAR-13710-1] c 35 N90-17117
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-3] c 35 N91-21495
Method of producing a plug type heat flux gauge
[NASA-CASE-LEW-14967-2] c 35 N91-23460
Plug-type heat flux gauge
[NASA-CASE-LEW-14967-1] c 35 N91-31608
Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008
Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182
Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N92-10609
Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374
Method of producing a plug-type heat flux gauge
[NASA-CASE-LEW-14967-2] c 35 N92-22038

MECHANICAL DEVICES
Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Satellite despin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439
Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179
Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529

Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599
Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456
Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479
Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482
Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426
Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560

Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832
Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N91-13734
Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222
Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543
Integral fill yarn insertion and beatup method
[NASA-CASE-LAR-14046-1] c 31 N92-11219
Woven angle ply fabric and apparatus and method for producing such fabrics
[NASA-CASE-LAR-14048-1] c 31 N92-11220

MECHANICAL DRIVES
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694
Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518
Rotary actuator
[NASA-CASE-NPO-10244] c 15 N72-26371
Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060
Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901
Geneva mechanism --- including star wheel and driver
[NASA-CASE-NPO-13281-1] c 37 N75-13266
Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
Hydraulic drain means for servo systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482
Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
Wabble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385
Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078

Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118

Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N91-32511

Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514

Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MSC-21434-1] c 37 N92-10197

Magnetostriuctive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N92-15331

MECHANICAL ENGINEERING

Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127

Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475

MECHANICAL MEASUREMENT

Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587

Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201

Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657

Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489

Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255

Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430

Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400

Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

MECHANICAL PROPERTIES

High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368

Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213

Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571

Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349

Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718

Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526

Polyphenylquinoxalines containing alkylendioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337

Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545

A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955

Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121

MECHANICS (PHYSICS)

Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039

MECHANIZATION

Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493

MEDICAL ELECTRONICS

Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531

Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081

Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612

MEDICAL EQUIPMENT

Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189

Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

Laser machining apparatus Patent
[NASA-CASE-HON-10541-2] c 15 N71-27135

Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153

Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078

Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011

Servo-controlled intravitral microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123

Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761

Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914

Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525

Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716

Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717

Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773

Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351

Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690

Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711

Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662

Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785

System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346

Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388

Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112

Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914

Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621

MEDICAL SCIENCE

Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562

MEDICAL SERVICES

Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1] c 35 N91-13686

MELTING

Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323

Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125

Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896

Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216

MELTING POINTS

Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316

Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

MELTS (CRYSTAL GROWTH)

Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798

Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419

Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244

Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389

Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789

Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113

Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718

High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971

Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286

Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N91-15898

Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499

MEMBRANE STRUCTURES

Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699

Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233

Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210

Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747

Meteoroid capture cell construction
[NASA-CASE-MSC-12423-1] c 91 N76-30131

Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163

In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257

Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642

Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644

MEMBRANES

Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363

Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742

Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567

Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513

Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169

Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687

Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452

Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076

Air removal device --- life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269

Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641

Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921

Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361

Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052

Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070

Adjustable steam producing flexible orifice independent of fluid pressure
[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724

MEMORY

Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032

Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151

MEMORY (COMPUTERS)

- Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992
- Real-time garbage collection for list processing
[NASA-CASE-MSC-20964-1] c 60 N87-14863
- Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
- Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
- Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974
- Solid state electrical switch employing materials with reversible phase transistors
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010
- Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N91-13888
- Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769
- Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
- Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N91-32925
- Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438
- Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N92-22033

MENTAL PERFORMANCE

- General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911

MERCURY (METAL)

- Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
- Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
- Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709

MERCURY CADMIUM TELLURIDES

- Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896

MERCURY VAPOR

- Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
- Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294

MESSAGE PROCESSING

- Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946

METABOLIC WASTES

- Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
- Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067

METABOLISM

- Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
- Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769
- Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750

METAL BONDING

- Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
- Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
- Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
- Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132
- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
- Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
- Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
- Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497

- Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
- Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
- Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
- Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265
- Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
- Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
- Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
- Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573
- Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
- Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
- Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
- Process for bonding elastomers to metal
[NASA-CASE-LAR-13645-1] c 27 N91-28424
- Apparatus and method for explosive bonding to edge of flyer plate
[NASA-CASE-LAR-14096-1] c 31 N91-31476

METAL COATINGS

- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
- Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
- Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
- Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
- Selective nickel deposition
[NASA-CASE-LEW-10965-1] c 15 N72-25452
- Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
- Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c 44 N76-14595
- Ultraviolet light reflective coating
[NASA-CASE-GSC-11786-1] c 24 N76-24363
- Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
- Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
- Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
- Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
- Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412
- Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298

METAL COMPOUNDS

- Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348

METAL CUTTING

- Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460
- Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131
- Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186

- Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319

METAL FATIGUE

- Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
- Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462

METAL FIBERS

- Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331

METAL FILMS

- Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
- Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
- Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
- Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
- Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
- Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
- Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
- Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
- Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
- Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
- Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
- Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236
- Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025
- Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561

METAL FINISHING

- Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
- Surface finishing --- for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225

METAL FLUORIDES

- Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-27244

METAL FOILS

- Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180
- Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
- Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
- Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
- Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
- Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
- High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
- Improving the performance of blasting caps
[NASA-CASE-LAR-13832-1] c 28 N91-28444
- Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236

METAL FUELS

- Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209

METAL HALIDES

- Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
- Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
- High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
- Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

- Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478
- METAL HYDRIDES**
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
- METAL IONS**
Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121
- METAL JOINTS**
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
- METAL MATRIX COMPOSITES**
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573
Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
Arc spray fabrication of metal matrix composite monolayer
[NASA-CASE-LEW-13828-1] c 24 N85-30027
Oxidation resistant coatings for titanium alloys and titanium alloy matrix composites
[NASA-CASE-LEW-15155-1] c 27 N91-26375
- METAL OXIDE SEMICONDUCTORS**
Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150

- Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412
- METAL OXIDES**
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Photoetching of metal-oxide layers
[NASA-CASE-ERC-10108] c 06 N72-21094
Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
- METAL PARTICLES**
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
- METAL PLATES**
Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
Nuclear fuel elements
[NASA-CASE-XLE-00209] c 22 N73-32528
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132
Apparatus and method for explosive bonding to edge of flyer plate
[NASA-CASE-LAR-14096-1] c 31 N91-31476
- METAL POWDER**
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
- METAL SHEETS**
Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
- METAL SHELLS**
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886

- METAL SPINNING**
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
- METAL SPRAYING**
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- METAL STRIPS**
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-APC-10516-1] c 70 N74-21300
Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427
High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N91-28363
- METAL SURFACES**
Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N91-15368
Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N91-25296
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298
Process for bonding elastomers to metal
[NASA-CASE-LAR-13645-1] c 27 N91-28424
- METAL VAPOR LASERS**
High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
- METAL VAPORS**
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
- METAL WORKING**
Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833

- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865
- Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
- Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
- METAL-METAL BONDING**
- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
- Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
- Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
- METALLIC GLASSES**
- Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
- High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
- METALLIZING**
- Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
- Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614
- Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014
- METALLOGRAPHY**
- Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
- METALLOSILOXANE POLYMER**
- Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
- METALLURGY**
- Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
- Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
- METALS**
- Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
- Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
- Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
- Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
- Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
- Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
- Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
- Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
- Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
- Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
- Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
- Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
- Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
- Device and method for frictionally testing materials for ignitability
[NASA-CASE-MS-C-20622-1] c 25 N86-19413
- Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
- Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N91-15368
- Energy dissipator
[NASA-CASE-MS-C-21555-1] c 37 N91-23492
- METASTABLE STATE**
- Stabilization of He(2a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
- Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
- METEORITE COLLISIONS**
- Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
- Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
- METEORITES**
- Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018
- METEORITIC DAMAGE**
- Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
- METEOROID HAZARDS**
- Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
- METEOROID PROTECTION**
- Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
- METEORIODS**
- Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419
- Meteoroid capture cell construction
[NASA-CASE-MS-C-12423-1] c 91 N76-30131
- Thermally isolated deployable shield for spacecraft
[NASA-CASE-MFS-28524-1] c 18 N91-25167
- METEOROLOGICAL BALLOONS**
- Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007
- METHANE**
- Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897
- Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
- Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
- METHYL ALCOHOL**
- Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
- METHYL COMPOUNDS**
- Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
- Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
- The 1-((diorganoxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
- Some 1-((diorganoxyphosphonyl)methyl)-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
- Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N91-13561
- METHYLENE**
- Carboranyl-methylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
- Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198
- METRIC SPACE**
- General method of pattern classification using the two-domain theory
[NASA-CASE-MS-C-21737-1] c 61 N91-13911
- MICHELSON INTERFEROMETERS**
- Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
- Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
- Multispectral imaging system
[NASA-CASE-MS-C-12404-1] c 23 N73-13661
- Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391
- MICROANALYSIS**
- Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
- MICROBALANCES**
- Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
- Microbalance --- for measuring particle mass
[NASA-CASE-MS-C-11242] c 35 N78-17358
- MICROBALLOONS**
- Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
- Method and apparatus for producing microshells
[NASA-CASE-NPO-16635-1-CU] c 31 N91-32240
- MICROBIOLOGY**
- Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284
- Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
- Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
- Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
- Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
- Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
- MICROCHANNELS**
- Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
- MICROCRACKS**
- System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
- Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
- A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881
- MICROELECTRONICS**
- Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
- Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
- Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
- Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
- Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
- Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
- Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
- Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
- Method for anisotropic etching in the manufacture of semiconductor devices
[NASA-CASE-MS-C-21631-1] c 75 N91-32947
- MICROFIBERS**
- Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431
- MICROFILMS**
- Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788
- MICROGRAVITY APPLICATIONS**
- Spiral vane bioreactor
[NASA-CASE-MS-C-21361-1] c 51 N91-21701
- Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N91-23933
- Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286

MICROINSTRUMENTATION

Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386

MICROMETEORITES

Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433

MICROMETEORIDS

Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-00906] c 31 N71-16221
Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390

MICROMETERS

Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386

MICROMINIATURIZATION

Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484

MICROORGANISMS

Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755

MICROPARTICLES

Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

MICROPHONES

Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
Fiber optic microphone
[NASA-CASE-LAR-14402-1-CU] c 74 N91-15874
Vacuum-isolation vessel and method for measurement of thermal noise in microphones
[NASA-CASE-LAR-14567-1-CU] c 33 N92-12174

MICROPOROSITY

Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MSC-21487-1] c 25 N90-16887

MICROPROCESSORS

Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992
Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621

MICROSCOPES

Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N91-15519
Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545

MICROSTRIP ANTENNAS

Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 38 N80-32604
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336

MICROSTRIP TRANSMISSION LINES

Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

MICROSTRUCTURE

Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096

MICROTHRUST

Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 32 N71-25213
Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766

MICROWAVE AMPLIFIERS

Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350

MICROWAVE ANTENNAS

Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292

Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336

MICROWAVE CIRCUITS

Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552

MICROWAVE COUPLING

Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Maser cavity servo-tuning system
[NASA-CASE-NPO-15690-1-CU] c 33 N85-29143

MICROWAVE EQUIPMENT

Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-2] c 35 N85-34373
Three point lead screw positioning apparatus
[NASA-CASE-LEW-15216-1] c 37 N92-17678

MICROWAVE FILTERS

High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195

MICROWAVE FREQUENCIES

Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013

MICROWAVE OSCILLATORS

Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596

MICROWAVE RADIOMETERS

Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N91-23662

MICROWAVE REFLECTOMETERS

Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822

MICROWAVE RESONANCE

Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137

MICROWAVE SCATTERING

Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

MICROWAVE SENSORS

Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317

MICROWAVE SWITCHING

Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340

MICROWAVE TRANSMISSION

Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085

MICROWAVE TUBES

Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208

MICROWAVES

Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MSC-21936-1] c 25 N92-19486

MIDAIR COLLISIONS

Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641

MILLIMETER WAVES

Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
Monolithic mm-wave phase shifter using optically activated superconducting switches
[NASA-CASE-LEW-14878-1] c 74 N91-13996
Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197

MILLING (MACHINING)

Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058

MILLING MACHINES

Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

MIND (COMPUTERS)

Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268

MINERAL DEPOSITS

Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509

MINERAL METABOLISM

Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737

MINES (EXCAVATIONS)

Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963

MINIATURE ELECTRONIC EQUIPMENT

Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

MINIATURIZATION

Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N90-22724
Reflection oscillators employing series resonant crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520

MINING

Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

MINORITY CARRIERS

Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

MIRRORS

Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Optical range finder having nonoverlapping complete images
[NASA-CASE-MSC-12105-1] c 14 N72-21409
Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673
Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391
Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969

Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1-CU] c 74 N86-33138
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
Wide acceptance angle, high concentration ratio, optical collector
[NASA-CASE-MFS-28295-1] c 74 N91-13999
Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N91-15519
Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489
Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N91-32923
Wide field strip-imaging optical system
[NASA-CASE-NPO-18146-1-CU] c 74 N92-17892
Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899

MIS (SEMICONDUCTORS)
Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841

MISALIGNMENT
Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543

MISSILE CONTROL
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140

MISSILE LAUNCHERS
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043

MISSILE STRUCTURES
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

MISSILES
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100

MITOSIS
Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769

MIXERS
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298
Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250

MIXING
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
Cellular thermosetting fluorodiepoxy polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209

MIXING CIRCUITS
Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141

MIXTURES
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
Ethynyl terminated imidothioethers and resins therefrom
[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307

MOBILE COMMUNICATION SYSTEMS

Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

MOBILITY

Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603

MODE TRANSFORMERS

Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676
Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133

MODELS

Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N92-10185

MODEMS

Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314

MODES (STANDING WAVES)

Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086

MODULATION

Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280

MODULATORS

Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N91-23889

MODULES

Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411

MODULUS OF ELASTICITY

Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454

High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

MOIRE EFFECTS

Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-32922

MOISTURE

Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

MOISTURE CONTENT

Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-1496

MOISTURE METERS

Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

MOISTURE RESISTANCE

Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282

MOLDING MATERIALS

Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123

MOLDS

Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570

MOLECULAR BEAM EPITAXY

MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N92-22035

MOLECULAR BEAMS

Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269

MOLECULAR CHAINS

Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N91-15402

MOLECULAR GASES

Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127

MOLECULAR PUMPS

Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294

MOLECULAR RELAXATION

Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

MOLECULAR ROTATION

Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

MOLECULAR SPECTRA

Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

MOLECULAR SPECTROSCOPY

Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137

MOLECULAR STRUCTURE

Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956

MOLECULAR WEIGHT

Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
Polyimidoazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N91-23237
Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230
Processing for maximizing the level of crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-14481-1] c 25 N92-16043

MOLECULES

Stabilization of He₂(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

MOLTEN SALT ELECTROLYTES

Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643

MOLTEN SALTS

Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536

MOLYBDENUM

Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

MOLYBDENUM CARBIDES

Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077

MOLYBDENUM DISULFIDES

Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

MOMENTS OF INERTIA

Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

MOMENTUM

- Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
- Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990

MOMENTUM TRANSFER

- Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380

MONATOMIC GASES

- Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402

MONITORS

- Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
- Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
- Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
- Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
- Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
- Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
- Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
- Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
- Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
- Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
- Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
- Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
- Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
- Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
- Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
- Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362
- Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
- Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
- Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096
- Noninvasive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544
- Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1] c 35 N91-13686
- Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914
- Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120
- Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755
- MONOCHROMATIC RADIATION**
- Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753
- Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
- Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900
- MONOCHROMATORS**
- Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
- Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109

MONOMERS

- Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
- Bifunctional monomers having terminal oxime and cyano or amide groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
- Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
- Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
- Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
- Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
- Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
- Polyphenylquinoxalines containing alkylendioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
- New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
- Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230
- Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066
- Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198

MONOPOLE ANTENNAS

- Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
- Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720

MONOPROPELLANTS

- Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
- Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
- Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

MONOPULSE ANTENNAS

- Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
- Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
- Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
- Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

MONOPULSE RADAR

- Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
- Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483

MONOSTABLE MULTIVIBRATORS

- Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
- Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860

MORPHOLOGY

- Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

MOSSBAUER EFFECT

- Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
- Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329

MOTION

- Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994

MOTION PICTURES

- Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
- Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328

MOTION SICKNESS

- Intranasal scopolamine preparation and method
[NASA-CASE-MSC-21858-1] c 52 N92-11628

MOTION SIMULATORS

- Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
- Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

MOTION STABILITY

- Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658

MOTORS

- Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
- System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
- Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
- Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716

MOUNTING

- Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
- Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
- Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
- Circuit board package with wedge shaped covers
[NASA-CASE-MSC-21919-1] c 10 N73-25243
- Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
- Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
- Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
- Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468
- Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
- Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
- Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
- Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
- Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
- Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
- Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
- Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
- Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590
- Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-14617
- Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543
- Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542
- Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N91-26543
- Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385
- Flush mounting of thin film sensors
[NASA-CASE-LAR-14446-1] c 31 N91-28454
- Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755

MOVING TARGET INDICATORS

- Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
- Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

MULLITES

- Production of mullite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870

MULTIBEAM ANTENNAS

- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
- Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961

MULTICHANNEL COMMUNICATION

- Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
- Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763

Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier [NASA-CASE-NPO-11593-1] c 07 N73-28012

Miniature multichannel biotelemetry system [NASA-CASE-NPO-13065-1] c 52 N74-26625

Medical subject monitoring systems --- multichannel monitoring systems [NASA-CASE-MSC-14180-1] c 52 N76-14757

Multi-channel rotating optical interface for data transmission [NASA-CASE-NPO-14066-1] c 74 N79-34011

MULTILAYER INSULATION

Sealing member and combination thereof and method of producing said sealing member Patent [NASA-CASE-XMS-01625] c 15 N71-23022

Panelized high performance multilayer insulation Patent [NASA-CASE-MFS-14023] c 33 N71-25351

Electrical apparatus for detection of thermal decomposition of insulation Patent [NASA-CASE-XMF-03968] c 14 N71-27186

Method of making an insulation foil [NASA-CASE-LEW-11484-1] c 24 N75-33181

Multiwall thermal protection system [NASA-CASE-LAR-12620-1] c 24 N82-32417

Composite flexible blanket insulation [NASA-CASE-NPO-11907-1-NP] c 24 N91-31236

MULTIPACTOR DISCHARGES

High power RF coaxial switch [NASA-CASE-NPO-14229-1] c 33 N80-18285

MULTIPATH TRANSMISSION

Anti-multipath digital signal detector [NASA-CASE-LAR-11827-1] c 32 N77-10392

Large volume multiple-path nuclear pumped laser [NASA-CASE-LAR-12592-1] c 36 N82-13415

MULTIPLE BEAM INTERVAL SCANNERS

Tracking antenna system Patent [NASA-CASE-GSC-10553-1] c 07 N71-19854

Variable beamwidth antenna --- with multiple beam, variable feed system [NASA-CASE-GSC-11862-1] c 32 N76-18295

MULTIPLE DOCKING ADAPTERS

Expanding center probe and drogue Patent [NASA-CASE-XMS-03613] c 31 N71-16346

MULTIPLE OUTPUT PROGRAMS

Multi-computer multiple data path hardware exchange system [NASA-CASE-NPO-13422-1] c 60 N76-14818

MULTIPLEXING

Doppler frequency spread correction device for multiplex transmissions [NASA-CASE-XGS-02749] c 07 N69-39978

Elimination of frequency shift in a multiplex communication system Patent [NASA-CASE-XNP-01306] c 07 N71-20814

Satellite interface synchronization system [NASA-CASE-GSC-10390-1] c 07 N72-11149

Method and apparatus for data compression by a decreasing slope threshold test [NASA-CASE-NPO-10769] c 08 N72-11171

Data multiplexer using tree switching configuration [NASA-CASE-NPO-11333] c 08 N72-22162

Television multiplexing system [NASA-CASE-KSC-10654-1] c 07 N73-30115

Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use [NASA-CASE-NPO-13321-1] c 32 N75-26195

Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals [NASA-CASE-GSC-11744-1] c 33 N75-26243

System for producing chroma signals [NASA-CASE-MSC-14683-1] c 74 N77-18893

Fiber optic multiplex optical transmission system [NASA-CASE-KSC-11047-1] c 74 N78-14889

System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station [NASA-CASE-GSC-12411-1] c 33 N81-14221

Multifrequency broadband polarized horn antenna [NASA-CASE-NPO-14588-1] c 32 N81-25278

High-speed multiplexing of keyboard data inputs [NASA-CASE-NPO-14554-1] c 60 N81-27814

Multi-channel temperature measurement amplification system --- solar heating systems [NASA-CASE-MFS-23775-1] c 44 N82-16474

Integrating IR detector imaging systems [NASA-CASE-NPO-15805-1] c 74 N84-28590

Correlation spectrometer having high resolution and multiplexing capability [NASA-CASE-NPO-15558-1] c 35 N84-34705

Laser Doppler velocimeter multiplexer interface for simultaneous measured events [NASA-CASE-ARC-11536-1] c 33 N89-14384

Fault tolerant hypercube computer system architecture [NASA-CASE-NPO-16859-1-CU] c 60 N90-21527

Adaptive data acquisition multiplexing system and method [NASA-CASE-MSC-21170-1] c 17 N91-14371

Closed-loop motor control using high-speed fiber optics [NASA-CASE-MSC-21806-1] c 74 N92-17863

MULTIPLIERS

Pulse-width modulation multiplier Patent [NASA-CASE-XER-09213] c 07 N71-12390

Variable pulse width multiplier Patent [NASA-CASE-XLA-02850] c 09 N71-20447

Capacitance multiplier and filter synthesizing network [NASA-CASE-NPO-11948-1] c 33 N74-32712

Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter [NASA-CASE-LEW-12791-1] c 33 N78-32341

VLSI architecture for a Reed-Solomon decoder [NASA-CASE-NPO-17897-1-CU] c 33 N90-27040

MULTIPROCESSING (COMPUTERS)

Fault tolerant hypercube computer system architecture [NASA-CASE-NPO-16859-1-CU] c 60 N90-21527

A universal computer control system for motors [NASA-CASE-NPO-17134-1-CU] c 33 N91-31528

MULTISPECTRAL BAND SCANNERS

Optical process for producing classification maps from multispectral data [NASA-CASE-MSC-14472-1] c 43 N77-10584

Interactive color display for multispectral imagery using correlation clustering [NASA-CASE-MSC-16253-1] c 32 N79-20297

Multispectral scanner optical system [NASA-CASE-MSC-18255-1] c 74 N80-33210

Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin [NASA-CASE-NPO-14402-1] c 52 N81-27783

Dual aperture multispectral Schmidt objective [NASA-CASE-GSC-12756-1] c 74 N84-23248

MULTISPECTRAL LINEAR ARRAYS

Time delay and integration detectors using charge transfer devices [NASA-CASE-GSC-12324-1] c 33 N81-33403

Multispectral linear array multiband selection device [NASA-CASE-GSC-12911-1] c 74 N86-29650

MULTISPECTRAL PHOTOGRAPHY

Multispectral imaging system [NASA-CASE-MSC-12404-1] c 23 N73-13661

Optical process for producing classification maps from multispectral data [NASA-CASE-MSC-14472-1] c 43 N77-10584

Multispectral imaging and analysis system --- using charge coupled devices and linear arrays [NASA-CASE-NPO-13691-1] c 43 N79-17288

Interactive color display for multispectral imagery using correlation clustering [NASA-CASE-MSC-16253-1] c 32 N79-20297

MULTISPECTRAL TRACKING TELESCOPES

Multispectral glancing incidence X-ray telescope [NASA-CASE-MFS-28013-1] c 89 N86-22459

MULTISTAGE ROCKET VEHICLES

Recoverable rocket vehicle Patent [NASA-CASE-XMF-00389] c 31 N70-34176

Steerable solid propellant rocket motor Patent [NASA-CASE-XNP-00234] c 28 N70-38645

Multi-mission module Patent [NASA-CASE-XMF-01543] c 31 N71-17730

Single action separation mechanism Patent [NASA-CASE-XLA-00188] c 15 N71-22874

Lateral displacement system for separated rocket stages Patent [NASA-CASE-XLA-04804] c 31 N71-23008

Frangible link [NASA-CASE-MSC-11849-1] c 15 N72-22488

Three stage rocket vehicle with parallel staging [NASA-CASE-MFS-25878-1] c 18 N84-27787

MULTISTATIC RADAR

Method for providing a polarization filter for processing synthetic aperture radar image data [NASA-CASE-NPO-17904-1-CU] c 32 N91-13594

MULTIVIBRATORS

Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent [NASA-CASE-XGS-00381] c 09 N70-34819

Variable frequency magnetic multivibrator Patent [NASA-CASE-XGS-00458] c 09 N70-38604

Variable frequency magnetic multivibrator Patent [NASA-CASE-XGS-00131] c 09 N70-38995

High efficiency multivibrator Patent [NASA-CASE-XAC-00942] c 10 N71-16042

A dc-coupled noninverting one-shot Patent [NASA-CASE-XNP-09450] c 10 N71-18723

Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent [NASA-CASE-ARC-10137-1] c 09 N71-28468

Digital demodulator [NASA-CASE-LAR-12659-1] c 33 N82-26570

MUSCLES

Subminiature insertable force transducer --- including a strain gage to measure forces in muscles [NASA-CASE-NPO-13423-1] c 33 N75-31329

Multifunctional transducer [NASA-CASE-NPO-14329-1] c 52 N81-20703

MUSCULAR FUNCTION

Miniature muscle displacement transducer [NASA-CASE-NPO-13519-1] c 33 N76-19338

Simultaneous muscle force and displacement transducer [NASA-CASE-NPO-14212-1] c 52 N80-27072

MUSCULOSKELETAL SYSTEM

Skeletal stressing method and apparatus Patent [NASA-CASE-ARC-10100-1] c 05 N71-24738

MYOCARDIUM

Myocardium wall thickness transducer and measuring method [NASA-CASE-NPO-13644-1] c 52 N76-29895

Simultaneous muscle force and displacement transducer [NASA-CASE-NPO-14212-1] c 52 N80-27072

MYOPIA

Visual accommodation trainer-tester [NASA-CASE-ARC-11426-1] c 09 N84-12193

N**N-TYPE SEMICONDUCTORS**

Complementary DMOS-VMOS integrated circuit structure [NASA-CASE-GSC-12190-1] c 33 N79-12321

Formation of self-aligned guard rings for monolithic Schottky-barrier diode arrays [NASA-CASE-NPO-17734-1-CU] c 33 N92-10146

NACELLES

Inlet deflector for jet engines Patent [NASA-CASE-XLE-00388] c 28 N70-34788

Nacelle afterbody for jet engines Patent [NASA-CASE-XLA-10450] c 28 N71-21493

Integrated gas turbine engine-nacelle [NASA-CASE-LEW-12389-2] c 07 N78-18066

Integrated gas turbine engine-nacelle [NASA-CASE-LEW-12389-3] c 07 N79-14096

NAPHTHALENE

Multi-colored layers for visualizing aerodynamic flow effects [NASA-CASE-LAR-13742-1] c 02 N91-16999

Multi-colored layers for visualizing aerodynamic flow effects [NASA-CASE-LAR-13742-1] c 02 N92-21588

NARROWBAND

Small particle selective emitter [NASA-CASE-LEW-14731-1] c 44 N91-13802

Integrated filter and detector array for spectral imaging [NASA-CASE-NPO-18317-1-CU] c 74 N91-32926

Selective emitters [NASA-CASE-LEW-14731-1] c 44 N92-22037

NASA PROGRAMS

Retractable environmental seal [NASA-CASE-MFS-23646-1] c 37 N79-22474

NAVIGATION

Thumb-actuated two-axis controller [NASA-CASE-ARC-11372-1] c 08 N86-27288

NAVIGATION AIDS

Magnetic heading reference [NASA-CASE-LAR-11387-1] c 04 N76-20114

Ruler for making navigational computations [NASA-CASE-XNP-01458] c 04 N78-17031

System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation [NASA-CASE-FRC-11005-1] c 06 N82-16075

Magnetic heading reference [NASA-CASE-LAR-12638-1] c 04 N84-14132

Low-frequency radio navigation system [NASA-CASE-NPO-15264-1] c 04 N84-27713

NAVIGATION INSTRUMENTS

Sun angle calculator [NASA-CASE-MSC-12617-1] c 35 N76-29552

NAVIGATION SATELLITES

Satellite aided vehicle avoidance system Patent [NASA-CASE-ERC-10090] c 21 N91-24948

System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar [NASA-CASE-NPO-17937-1-CU] c 43 N91-21621

NEAR INFRARED RADIATION

Collimator of multiple plates with axially aligned identical random arrays of apertures [NASA-CASE-MFS-20546-2] c 14 N73-30389

NEEDLES

Sharps container [NASA-CASE-MSC-21776-1] c 31 N92-17913

NEGATIVE FEEDBACK

- Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
- Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335

NEGATIVE IONS

- Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660

NEODYMIUM LASERS

- Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499

NERVES

- Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

NETS

- Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007

NETWORK SYNTHESIS

- Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
- High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
- Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421

NEURAL NETS

- Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
- Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974
- Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385
- Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769
- High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841
- An accelerated training method for back propagation networks
[NASA-CASE-MSC-21625-1] c 53 N91-28730
- Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852
- Neural-network dedicated processor for solving competitive assignment problems
[NASA-CASE-NPO-17781-1-CU] c 60 N92-17884
- Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N92-22033

NEUROGLIA

- Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738

NEUROLOGY

- Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

NEUTRONS

- Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974

NEUTRALIZERS

- Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

NEUTRON EMISSION

- Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860

NICKEL

- Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
- Selective nickel deposition
[NASA-CASE-LEW-10965-1] c 15 N72-25452
- Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
- Method of making reinforced composite plaque
[NASA-CASE-LEW-12619-1] c 24 N77-19171
- Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
- Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
- Metal (2,4,4',4'') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- NICKEL ALLOYS**
High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
- Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
- Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026
- Nickel base alloy
[NASA-CASE-LEW-10874-1] c 17 N72-22535
- Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
- Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
- Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
- Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
- Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
- Nickel ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
- Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
- Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647
- NICKEL CADMIUM BATTERIES**
Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
- Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531
- NICKEL COATINGS**
Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
- Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
- NICKEL COMPOUNDS**
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
- Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
- NICKEL HYDROGEN BATTERIES**
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874
- NICKEL PLATE**
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
- NICKEL ZINC BATTERIES**
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
- NIOBIUM**
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
- Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-2-CU] c 76 N92-22040
- Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-3-CU] c 76 N92-22041
- NIOBIUM COMPOUNDS**
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
- Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
- NITINOL ALLOYS**
Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N91-28582
- Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N91-28727
- NITRAMINE PROPELLANTS**
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
- NITRATION**
The 1-(diorganoxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
- Some 1-(diorganoxyphosphonyl)methyl)-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
- NITRIC OXIDE**
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298
- NITRIDES**
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
- Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
- Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
- NITRIDING**
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
- NITRILES**
Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
- Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
- Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
- NITRO COMPOUNDS**
Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
- NITROAMINES**
Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469
- Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147
- NITROGEN**
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409
- NITROGEN COMPOUNDS**
Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078
- NITROGEN OXIDES**
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
- Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
- NITROGEN TETROXIDE**
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
- NITROGENATION**
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N91-23237
- NITROGUANIDINE**
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
- NOBLE METALS**
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
- Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
- NODES (STANDING WAVES)**
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
- NOISE GENERATORS**
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
- Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
- NOISE MEASUREMENT**
Vacuum-isolation vessel and method for measurement of thermal noise in microphones
[NASA-CASE-LAR-14567-1-CU] c 33 N92-12174
- NOISE METERS**
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
- Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
- Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445
- NOISE REDUCTION**
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
- Cassegrainian antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
- Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
- Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
- Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
- Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
- Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266

Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568

Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244

Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453

Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057

Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490

Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226

Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270

Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418

Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218

Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485

Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117

Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273

Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998

Variably thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055

Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421

Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364

Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871

Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605

Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800

Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235

Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884

Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769

Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N87-21235

Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563

Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N91-27913

NOISE TEMPERATURE
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

NOISE THRESHOLD
Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696

NONADIABATIC CONDITIONS
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357

NONDESTRUCTIVE TESTS
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613

Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964

Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788

Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124

Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563

Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515

Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447

Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126

Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276

Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894

Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966

Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170

Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756

Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552

Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N91-32167

A method and apparatus for indicating disbands in joint regions
[NASA-CASE-LAR-14626-1] c 38 N92-17859

Method for non-destructive estimation of waveguide directional coupler dimensions
[NASA-CASE-NPO-18454-1-CU] c 33 N92-17865

NONEQUILIBRIUM CONDITIONS
Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720

NONEQUILIBRIUM PLASMAS
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884

NONEQUILIBRIUM RADIATION
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920

NONFLAMMABLE MATERIALS
Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562

Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405

NONLINEAR FEEDBACK
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523

Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373

NONLINEAR FILTERS
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493

NONLINEAR OPTICS
Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

NONLINEAR SYSTEMS
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272

Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594

Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222

Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439

NONLINEARITY
Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809

NORMAL DENSITY FUNCTIONS
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932

NOSE CONES
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637

Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984

NOSE WHEELS
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160

NOSES (FOREBODIES)
Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140

NOTCH STRENGTH
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583

NOTCH TESTS
Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131

Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307

NOTCHES
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307

NOZZLE DESIGN
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284

Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711

Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899

Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637

Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660

Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224

Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330

Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068

Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065

Variably thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055

Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097

Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371

Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376

Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563

Nozzle fabrication technique
[NASA-CASE-MSC-21299-2] c 37 N91-32508

NOZZLE FLOW
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582

Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647

Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153

Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129

Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070

Adjustable steam producing flexible orifice independent of fluid pressure
[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724

NOZZLE GEOMETRY
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123

Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684

NOZZLE INSERTS
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967

Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088

NUCLEAR EXPLOSION EFFECT
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852

NUCLEAR FUEL ELEMENTS

Nuclear fuel elements
[NASA-CASE-XLE-00209] c 22 N73-32528

NUCLEAR MAGNETIC RESONANCE

Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266

NUCLEAR POWER PLANTS

Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

NUCLEAR PUMPED LASERS

Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307

NUCLEAR PUMPING

Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415

NUCLEAR REACTOR CONTROL

Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597

Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913

NUCLEAR REACTORS

Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891

High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179

Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

NUCLEATE BOILING

Method of improving heat transfer characteristics in a nucleate boiling process Patent
[NASA-CASE-XMS-04268] c 33 N71-16277

NUCLEATION

Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968

NUCLEOPHILES

Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814

NULL ZONES

Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740

NUMBER THEORY

Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850

NUMERICAL ANALYSIS

Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

NUMERICAL CONTROL

Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215

Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349

Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352

Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790

Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556

Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411

A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492

Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583

Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374

A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528

NUMERICAL INTEGRATION

Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

NUTATION

Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747

Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513

NUTATION DAMPERS

Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719

Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

NUTS (FASTENERS)

Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489

Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457

High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383

Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653

Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976

Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977

Spline-locking payload fastener
[NASA-CASE-GSC-13378-1] c 37 N91-28581

Quick application/release nut with engagement indicator
[NASA-CASE-MSC-21799-1] c 37 N92-11359

O**O RING SEALS**

High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908

Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442

Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447

Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497

Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790

O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N91-21175

OBLIQUE WINGS

Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217

OBSERVATION

Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835

OBSTACLE AVOIDANCE

Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544

Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N91-23783

OCCCLUSION

Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

OCEAN CURRENTS

Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327

OCEAN DATA ACQUISITIONS SYSTEMS

Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

OCEAN SURFACE

Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391

Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621

OCEAN THERMAL ENERGY CONVERSION

Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542

ODORS

Vapor fragrances
[NASA-CASE-LAR-13680-1] c 35 N87-25561

OFFSHORE PLATFORMS

Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542

OHMMETERS

Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497

Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555

OIL EXPLORATION

Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555

Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709

OIL RECOVERY

Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308

In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452

Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282

Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428

OILS

Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815

Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308

Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008

OLIGOMERS

N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419

OMNIDIRECTIONAL ANTENNAS

Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888

Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244

Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247

ON-LINE SYSTEMS

Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518

ONBOARD EQUIPMENT

Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285

Cryogenic storage system Patent
[NASA-CASE-XMS-04390] c 31 N70-41871

Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616

Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064

Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948

A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613

Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085

Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221

Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039

Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910

Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114

OPEN CHANNEL FLOW

Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180

OPENINGS

Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542

OPERATING TEMPERATURE

Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579

OPERATIONAL AMPLIFIERS

Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373

Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975

Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624

OPHTHALMOLOGY

Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062

Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

OPTICAL COMMUNICATION

Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491

Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389

Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183

High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119

Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913

Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553

Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053

Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942

Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889

Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032

Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383

Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

Closed-loop motor control using high-speed fiber optics
[NASA-CASE-MS-C-21806-1] c 74 N92-17863

OPTICAL CORRELATORS
Optical joint correlator for real-time image tracking and retinal surgery
[NASA-CASE-MS-C-21509-1] c 74 N91-25840

Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-17675

OPTICAL COUPLING
Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017

Optical fiber coupling method and apparatus
[NASA-CASE-NPO-15464-1] c 74 N85-29749

OPTICAL DATA PROCESSING
Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666

Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195

Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342

Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918

Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348

Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078

OPTICAL DENSITY
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862

OPTICAL DISKS
Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N91-14001

OPTICAL EMISSION SPECTROSCOPY
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041

Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150

OPTICAL EQUIPMENT
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355

Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365

Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268

Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170

Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868

Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674

Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027

Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389

Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386

Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037

Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414

Boreoscope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452

Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427

Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630

Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475

Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741

Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089

Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008

Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11533-1] c 74 N74-21304

Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040

Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273

Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993

Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793

Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950

Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366

Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932

Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308

Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854

Water system virus detection
[NASA-CASE-MS-C-16098-1] c 51 N79-10693

Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978

High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396

High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971

Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924

Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811

OPTICAL FIBERS
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150

Fiber optic microphone
[NASA-CASE-LAR-14402-1-CU] c 74 N91-15874

Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388

Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811

Wide field strip-imaging optical system
[NASA-CASE-NPO-18146-1-CU] c 74 N92-17892

OPTICAL FILTERS
High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622

Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568

Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MS-C-12640-1] c 74 N76-31998

System for producing chroma signals
[NASA-CASE-MS-C-14683-1] c 74 N77-18893

Optical conversion method --- for spacecraft television
[NASA-CASE-MS-C-12618-1] c 74 N78-17865

Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891

Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766

Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650

Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416

Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N91-32926

OPTICAL GYROSCOPES
Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448

Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259

OPTICAL HETERODYNING
Multispectral imaging system
[NASA-CASE-MS-C-12404-1] c 23 N73-13661

Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942

Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

OPTICAL MATERIALS
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854

Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718

OPTICAL MEASUREMENT
Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340

Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample Patent
[NASA-CASE-XGS-05291] c 23 N71-16341

Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040

Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447

Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913

Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628

Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577

Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523

Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766

Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190

OPTICAL MEASURING INSTRUMENTS
Optically pumped resonance magnetometer for determining vectorial components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428

Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673

Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323

Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407

Multiparameter vision testing apparatus
[NASA-CASE-MS-C-13601-2] c 54 N75-27759

Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138

Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687

Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888

Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MS-C-18627-1] c 74 N82-30071

Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921

Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266

Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669

Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302

OPTICAL MEMORY (DATA STORAGE)

- Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
- Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N91-32925

OPTICAL PATHS

- Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095
- Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
- Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302
- Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
- Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
- Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N91-23889

OPTICAL POLARIZATION

- Real-time image difference detection using a polarization rotation spatial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305

OPTICAL PROPERTIES

- Optical torque meter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
- Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
- Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
- Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
- Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
- Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
- Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060
- Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
- Real time pre-detection dynamic range compression
[NASA-CASE-NPO-18098-1-CU] c 74 N91-23890

OPTICAL PUMPING

- Optical pump and driver system for lasers
[NASA-CASE-ERC-10283] c 16 N72-25485
- Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
- Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
- Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
- Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065

OPTICAL PYROMETERS

- Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254

OPTICAL RADAR

- Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437

OPTICAL RANGE FINDERS

- Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326
- Optical range finder having nonoverlapping complete images
[NASA-CASE-MSC-12105-1] c 14 N72-21409

OPTICAL REFLECTION

- Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
- Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
- Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
- Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
- Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
- Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
- Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
- Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
- Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302

- Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008

OPTICAL RESONANCE

- Optically pumped resonance magnetometer for determining vectorial components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
- Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653

OPTICAL SCANNERS

- Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
- Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298
- Electro-optical scanning apparatus Patent Application
[NASA-CASE-NPO-11106] c 14 N70-34697
- Multi-lobe scan horizon sensor Patent
[NASA-CASE-XGS-00809] c 21 N70-35427
- Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c 14 N72-22441
- Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
- Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095
- Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431
- Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
- Optical scanner --- laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N78-17866
- Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
- Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
- Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
- Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
- Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679
- Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023

OPTICAL SWITCHING

- Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
- Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N91-23889

OPTICAL TRACKING

- Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
- Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
- Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
- Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
- Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
- Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301

OPTICAL TRANSFER FUNCTION

- Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935

OPTICAL WAVEGUIDES

- Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029

OPTIMIZATION

- Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407

OPTOELECTRONIC DEVICES

- Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
- Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N91-32925

OPTOGALVANIC SPECTROSCOPY

- Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 35 N86-25753

ORAL HYGIENE

- Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

ORBIT TRANSFER VEHICLES

- Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610

ORBITAL ASSEMBLY

- Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
- Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
- Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
- Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979
- Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
- Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614
- Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199
- Quick application/release nut with engagement indicator
[NASA-CASE-MSC-21799-1] c 37 N92-11359

ORBITAL LAUNCHING

- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

ORBITAL MANEUVERING VEHICLES

- Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817
- Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118

ORBITAL MANEUVERS

- Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278

ORBITAL MECHANICS

- A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884

ORBITAL SERVICING

- Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
- Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
- Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
- Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
- Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
- System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613

ORDNANCE

- Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863

ORGANIC CHEMISTRY

- Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141

ORGANIC COMPOUNDS

- Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
- Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
- Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
- Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
- Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
- Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746

- Amine terminated bisaspartamide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
The 1-((diorganoxy phosphonyl) methyl)-2,4- and
-2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605

ORGANIC MATERIALS

- Process for crosslinking methylene-containing aromatic
polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198

ORGANIC SILICON COMPOUNDS

- Oxygen post-treatment of plastic surface coated with
plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Boron-containing organosilane polymers and ceramic
materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040

ORGANIC SULFUR COMPOUNDS

- Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246

ORGANOMETALLIC COMPOUNDS

- Ammonium perchlorate composite propellant containing
an organic transitional metal chelate catalytic additive
Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
Carboranymethylene-substituted phosphazenes and
polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334

ORGANOMETALLIC POLYMERS

- Metal containing polymers from cyclic tetrameric
phenylphosphonitriamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
Thiophenyl ether disiloxanes and trisiloxanes useful as
lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
A process for preparing an assembly of an article and a
soluble polyimide which resists dimensional change,
delamination, and debonding when exposed to changes
in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121

ORGANS

- Device for removing foreign objects from anatomic
organs
[NASA-CASE-GSC-13306-1] c 52 N91-28727

ORIFICE FLOW

- Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Variable orifice flow regulator
[NASA-CASE-MSC-21549-1] c 34 N91-27504

ORIFICES

- Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070
Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N91-25335
Variable orifice flow regulator
[NASA-CASE-MSC-21549-1] c 34 N91-27504
Adjustable steam producing flexible orifice independent
of fluid pressure
[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724

ORTHO HYDROGEN

- Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

ORTHO PARA CONVERSION

- Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

ORTHOGONAL MULTIPLEXING THEORY

- Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917

ORTHOGONALITY

- Floating two force component measuring device
Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793

ORTHOPEDICS

- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661

ORTHOTROPIC CYLINDERS

- Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659

OSCILLATING FLOW

- Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072

OSCILLATION DAMPERS

- Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612
Apparatus for damping operator induced oscillations of
a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Method of damping nutation motion with minimum spin
axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333

OSCILLATIONS

- Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
Stabilization and oscillation of an acoustically levitated
object
[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236

OSCILLATORS

- Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Frequency control network for a current feedback
oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470
Signal ratio system utilizing voltage controlled oscillators
Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
Variable frequency oscillator with temperature
compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
Controlled oscillator system with a time dependent
output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
LC-oscillator with automatic stabilized amplitude via bias
current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Dielectric based submillimeter backward wave oscillator
circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
Low phase noise oscillator using two parallel connected
amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Water-absorbing capacitor system for measuring relative
humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
Reflection oscillators employing series resonant
crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635
Modified fast frequency acquisition via adaptive least
squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341
Constant frequency pulsed phase-locked loop
measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182

OSCILLOSCOPES

- Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Method and apparatus for mapping the sensitivity of
the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
X-Y alphanumeric character generator for
oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517

OUTER PLANETS EXPLORERS

- Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613

OUTGASSING

- Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Process for glass coating an ion accelerator grid
Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
Low outgassing polydimethylsiloxane material and
preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145

OUTLET FLOW

- Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

OUTPUT

- Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

Ovens

- Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431

OVERPRESSURE

- Method and apparatus for suppressing ignition
overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588

OVERVOLTAGE

- Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377

OXAZOLE

- Preparation of heterocyclic block copolymer
omega-diamidoximes
[NASA-CASE-XAC-11060-1] c 27 N79-22300
The 1,2,4-oxadiazole elastomers --- heat resistant
polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353

OXIDATION

- Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
Process of forming catalytic surfaces for wet oxidation
reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225
Compound oxidized styrylphosphine --- flame resistant
vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
Novel polyimide compositions based on 4,4':
Isophthaloyldipthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270
Oxidation resistant coatings for titanium alloys and
titanium alloy matrix composites
[NASA-CASE-LEW-15155-1] c 27 N91-26375
Low cost, formable, high T(sub c) superconducting
wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and
processes for their synthesis
[NASA-CASE-LEW-14345-6] c 23 N92-17882

OXIDATION RESISTANCE

- Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B
Patent
[NASA-CASE-XLE-02082] c 17 N71-16026
Method of protecting the surface of a substrate --- by
applying aluminide coating
[NASA-CASE-LEW-11696-1] c 37 N75-13261

Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c 26 N75-19408

High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217

High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213

Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916

Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505

Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457

Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569

Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482

Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480

Oxidation resistant coatings for titanium alloys and titanium alloy matrix composites
[NASA-CASE-LEW-15155-1] c 27 N91-26375

Polyimides containing amide and perfluoroisopropyl connecting groups
[NASA-CASE-LAR-14608-1] c 27 N92-17676

OXIDATION-REDUCTION REACTIONS

Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487

Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268

OXIDE FILMS

Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388

Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458

Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569

Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

OXIDES

Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029

Pretreatment of lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423

Solid lubricants on pretreated surfaces
[NASA-CASE-LEW-14474-2] c 27 N92-11186

OXIDIZERS

Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052

Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843

Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413

OXIMETRY

Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185

OXYGEN

Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527

Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773

Method of detecting oxygen in a gas
[NASA-CASE-LAR-10668-1] c 06 N73-16106

Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011

Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283

A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447

Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547

Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874

Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717

Device for quickly sensing the amount of O₂ in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025

Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271

OXYGEN ATOMS

Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661

Method for anisotropic etching in the manufacture of semiconductor devices
[NASA-CASE-MSC-21631-1] c 75 N91-32947

OXYGEN CONSUMPTION

Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

OXYGEN FLUORIDES

Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228

OXYGEN ISOTOPES

Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154

OXYGEN METABOLISM

Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728

OXYGEN PLASMA

Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052

OXYGEN PRODUCTION

Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
[NASA-CASE-LEW-14973-1] c 44 N92-10222

Method for producing oxygen from lunar materials
[NASA-CASE-MSC-21759-1] c 25 N92-12079

OXYGEN REGULATORS

Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

OXYGEN SUPPLY EQUIPMENT

Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900

Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338

OZONE

Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210

Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579

Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514

P

P-I-N JUNCTIONS

High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177

P-N JUNCTIONS

Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191

Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422

Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513

Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440

Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492

Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156

Method of making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438

Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532

Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541

Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528

P-TYPE SEMICONDUCTORS

Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654

Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638

Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780

Formation of self-aligned guard rings for monolithic Schottky-barrier diode arrays
[NASA-CASE-NPO-17734-1-CU] c 33 N92-10146

PACKAGES

Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225

One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085

PACKAGING

Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180

Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981

Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405

Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482

PACKET TRANSMISSION

Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428

PACKING DENSITY

Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936

High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425

PACKINGS (SEALS)

Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541

PAD

Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562

PAINTS

Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469

Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183

Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184

Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044

Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374

PALLADIUM

Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396

PALLADIUM COMPOUNDS

Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864

Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140

PANELS

All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799

Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351

Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726

Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018

Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540

Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487

Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415

Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040

Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149

Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599

Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515

Aluminium or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786
Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222
Thermally isolated deployable shield for spacecraft
[NASA-CASE-MFS-28524-1] c 18 N91-25167
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-17675

PANORAMIC SCANNING
Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769

PAPER (MATERIAL)
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

PAPERS
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

PARA HYDROGEN
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

PARABOLIC ANTENNAS
Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

PARABOLIC REFLECTORS
Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

PARABOLOID MIRRORS
Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666
Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866

PARACHUTE DESCENT
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Vortex brech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898

PARACHUTE FABRICS

Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330

PARACHUTES

System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200

PARAGLIDERS

Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804

PARALLAX

Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

PARALLEL COMPUTERS

Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268

PARALLEL PLATES

Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

PARALLEL PROCESSING (COMPUTERS)

Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769
Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805
Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N92-22033

PARAMETER IDENTIFICATION

Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321

PARAMETRIC AMPLIFIERS

Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660

PARAMETRIC FREQUENCY CONVERTERS

Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

PARAWINGS

Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630

PARKING

Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

PARTIAL PRESSURE

Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741

PARTICLE ACCELERATION

Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213

PARTICLE ACCELERATOR TARGETS

Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237

PARTICLE BEAMS

Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

PARTICLE COLLISIONS

Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

PARTICLE DENSITY (CONCENTRATION)

Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332

PARTICLE EMISSION

Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328

PARTICLE ENERGY

Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509

PARTICLE INTERACTIONS

Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

PARTICLE MASS

Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358

PARTICLE MOTION

Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16392
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412
Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N91-28135

PARTICLE PRODUCTION

Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379

PARTICLE SIZE DISTRIBUTION

Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N92-15114

PARTICLE TRACKS
Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622

PARTICLE TRAJECTORIES
Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433

SUBJECT INDEX

Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422

PARTICLES
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603

PARTICULATE SAMPLING
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241

PARTICULATES
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241

PASSAGEWAYS
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209

PASSENGERS
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

PASSIVE SATELLITES
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors
[NASA-CASE-XGS-02608] c 07 N70-41678
Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052

PASSIVITY
Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N92-10681

PASTES
Whole body cleansing agent
[NASA-CASE-MSC-21589-1] c 54 N91-16566

PATENT APPLICATIONS
Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492

PATENTS
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

PATIENTS
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519

PATTERN RECOGNITION
Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078
Programmable pipelined image processor
[NASA-CASE-NPO-16461-1-CU] c 60 N89-26400

General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317

PATTERN REGISTRATION
Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976

PAYLOAD DELIVERY (STS)
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

PAYLOAD DEPLOYMENT & RETRIEVAL SYSTEM
Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660

PAYLOAD INTEGRATION
Spline-locking payload fastener
[NASA-CASE-GSC-13378-1] c 37 N91-28581

PAYLOAD RETRIEVAL (STS)
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

PAYLOADS
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481

PCM TELEMETRY
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197

PEELING
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419

PEENING
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

PELLETS
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940

PELTIER EFFECTS
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

PELVIS
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507

PENETRANTS
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N91-15368

PENETRATION
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137

PENETROMETERS
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765

PERIPHERAL EQUIPMENT (COMPUTERS)

Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-23231
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443

PERCEPTION
Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122

PERFLUORO COMPOUNDS
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121
Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
Polymers of perfluorobutadiene and method of manufacture
[NASA-CASE-NPO-10863-2] c 06 N72-25152
Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
Polymerizable disilanol having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030
Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphthalic anhydrides
[NASA-CASE-MFS-22356-1] c 23 N75-30256
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Perfluoro (imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
Polyimides containing amide and perfluoroisopropyl connecting groups
[NASA-CASE-LAR-14608-1] c 27 N92-17676

PERFLUOROALKANE
Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300

PERFORATED PLATES
Process for glass coating an ion accelerator grid
[NASA-CASE-LEW-10278-1] c 15 N71-28582

PERFORATED SHELLS
Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089

PERFORMANCE PREDICTION
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

PERFORMANCE TESTS
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679
O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N91-21175
Torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N91-21176

PERIODIC VARIATIONS
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401

PERIPHERAL EQUIPMENT (COMPUTERS)
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492

PERISCOPES

Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362

PERMANENT MAGNETS

Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N91-21824

PERMEABILITY

Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906

PERMITTIVITY

Process for lowering the dielectric constant of polyimides using diamic acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546

PEROXIDES

Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252

PERSPIRATION

Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763

PERTURBATION

Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410

PERTURBATION THEORY

Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783

PH FACTOR

Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923

PHASE COHERENCE

Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523

PHASE CONJUGATION

Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998

PHASE CONTRAST

Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

PHASE CONTROL

Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493

PHASE DEMODULATORS

Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334

PHASE DETECTORS

Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596

Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024

PHASE DEVIATION

System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927

PHASE ERROR

Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

PHASE LOCK DEMODULATORS

Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318

PHASE LOCKED SYSTEMS

Automatic acquisition system for phase-locked loop
[NASA-CASE-XGS-04994] c 09 N69-21543
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Automatic frequency discriminators and control for a phase-locked loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Low speed phase lock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040

Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302
Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182
Method of recertifying a loaded bearing member using a phase point
[NASA-CASE-LAR-14741-1] c 39 N92-11384
Method of recertifying a loaded bearing member
[NASA-CASE-LAR-14168-1] c 39 N92-12302

PHASE MODULATION

Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

PHASE SHIFT

Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432

- JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
- Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
- Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280
- Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182
- PHASE SHIFT CIRCUITS**
- Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
- Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172
- Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204
- Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
- Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
- Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
- Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029
- PHASE SHIFT KEYING**
- Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
- Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
- Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
- Unbalanced quadriphase demodulator
[NASA-CASE-MSC-14840-1] c 32 N77-24331
- Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
- Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
- Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523
- Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N91-25316
- Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318
- Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-27439
- PHASE SWITCHING INTERFEROMETERS**
- Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
- PHASE TRANSFORMATIONS**
- Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
- Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
- Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
- PHASE VELOCITY**
- Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
- Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182
- PHASED ARRAYS**
- Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
- Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264
- Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210
- Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
- Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
- Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
- PHENOLIC RESINS**
- Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
- Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
- PHENOLS**
- Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
- Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235
- PHENYLS**
- The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
- Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
- Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
- Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418
- Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N91-23237
- PHONOCARDIOGRAPHY**
- Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- PHOSPHATES**
- Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
- PHOSPHAZENE**
- Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
- Carboranyl cyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
- Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
- Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
- Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
- Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
- PHOSPHINES**
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
- Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
- Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
- PHOSPHONITRILES**
- Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
- PHOSPHORIC ACID**
- Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N91-15368
- PHOSPHORS**
- High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
- Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
- Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831
- X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835
- Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388
- Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950
- PHOSPHORUS**
- Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
- Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
- The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamino benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
- Some 1-((diorganooxyphosphonyl)methyl)-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
- PHOSPHORUS COMPOUNDS**
- Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
- Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
- The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
- PHOSPHORUS POLYMERS**
- Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
- Carboranyl cyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
- PHOTOABSORPTION**
- Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
- PHOTOCATHODES**
- Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
- III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c'33 N76-31409
- PHOTOCHEMICAL REACTIONS**
- Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
- Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
- Vitro-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
- Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
- Solid lubricants on pretreated surfaces
[NASA-CASE-LEW-14474-2] c 27 N92-11186
- PHOTOCHROMISM**
- All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808
- PHOTOCONDUCTIVE CELLS**
- Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
- Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
- Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841
- PHOTOCONDUCTIVITY**
- Photoetching of metal-oxide layers
[NASA-CASE-ERC-10108] c 06 N72-21094
- PHOTOCONDUCTORS**
- Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
- Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258
- PHOTODIODES**
- Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
- PHOTODISSOCIATION**
- Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
- PHOTOELECTRIC CELLS**
- Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
- Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130

Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138

Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545

PHOTOELECTRIC EFFECT
Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599

PHOTOELECTRIC EMISSION
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877

PHOTOELECTRIC MATERIALS
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475

PHOTOELECTRICITY
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

PHOTOELECTROCHEMICAL DEVICES
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923

PHOTOELECTRON SPECTROSCOPY
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659

PHOTOGRAPHIC EMULSIONS
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

PHOTOGRAPHIC EQUIPMENT
Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886

PHOTOGRAPHIC FILM
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096

PHOTOGRAPHIC MEASUREMENT
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387

PHOTOGRAPHIC PROCESSING
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932

Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389

PHOTOGRAPHIC PROCESSING EQUIPMENT
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489

PHOTOGRAPHIC RECORDING
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551

PHOTOGRAPHY
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874

PHOTOIONIZATION
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090

PHOTOLYSIS
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470

PHOTOMAPPING
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899

PHOTOMASKS
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209

PHOTOMECHANICAL EFFECT
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400

PHOTOMETERS
Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N91-32926

PHOTOMICROGRAPHY
Stereo photomicrography system
[NASA-CASE-LAR-10176-1] c 14 N72-20380
Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594

PHOTOMULTIPLIER TUBES
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771

Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682

PHOTON BEAMS
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255

PHOTON-ELECTRON INTERACTION
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767

PHOTONS
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127

PHOTOSENSITIVITY
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
Apparatus for calibrating an image dissector tube
[NASA-CASE-MFS-22208-1] c 33 N75-26244
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

PHOTOTHERMAL CONVERSION
Predictive aging of polymers
[NASA-CASE-MSC-17524-1-CU] c 27 N90-10261

PHOTOTRANSISTORS
Phototransistor imaging system
[NASA-CASE-MFS-20809] c 23 N73-13660
Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841

PHOTOTROPISM
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443

PHOTOVISCOELASTICITY
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645

PHOTOVOLTAIC CELLS
Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c 44 N77-10635
Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550

- Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
Small particle selective emitter
[NASA-CASE-LEW-14731-1] c 44 N91-13802
Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037
- PHOTOVOLTAIC CONVERSION**
Photoelectrochemical cells including
chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
- PHOTOVOLTAIC EFFECT**
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
- PHthalATES**
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
- PHthalOCYANIN**
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348
Metal (2,4,4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-NPO-11511-2] c 27 N87-21112
- PHYSICAL EXERCISE**
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785
- PHYSICAL OPTICS**
Matching optics for Gaussian beams
[NASA-CASE-ARC-11892-1-SB] c 74 N92-16810
- PHYSICAL PROPERTIES**
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
- PHYSICAL WORK**
Treadmill for space flight
[NASA-CASE-MSC-21752-1] c 54 N92-17910
- PHYSIOLOGICAL EFFECTS**
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627
- PHYSIOLOGICAL TESTS**
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
- PHYSIOLOGY**
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
- Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709
- PHYTOTRONS**
Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N91-23933
- PIERCING**
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N92-15114
- PIEZOELECTRIC CRYSTALS**
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
CDS solid state phase insensitive ultrasonic transducer --- annealing dardium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
- PIEZOELECTRIC GAGES**
Torque sensor having a spoked sensor element support structure
[NASA-CASE-NPO-17461-1-CU] c 35 N91-17350
- PIEZOELECTRIC TRANSDUCERS**
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
- PIEZOELECTRICITY**
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
Piezoelectrostatic generator
[NASA-CASE-MFS-28298-1] c 76 N91-14872
- PIEZORESISTIVE TRANSDUCERS**
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
- PIGMENTS**
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
- PILOT TRAINING**
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
- PILOTS (PERSONNEL)**
System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
- PINCH EFFECT**
Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550
- PINHOLE CAMERAS**
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
- PINS**
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 37 N91-24577
Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N91-28582
Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 31 N92-16161
- PINTLES**
Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
- PIPE FLOW**
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423
Schlieren system for visualizing the flow within a pipe of circular cross-section
[NASA-CASE-LAR-13944-1] c 35 N92-11336
- PIPELINES**
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MSC-21434-1] c 37 N92-10197
- PIPELINING (COMPUTERS)**
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1-CU] c 60 N86-24224
Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169
Programmable pipelined image processor
[NASA-CASE-NPO-16461-1-CU] c 60 N89-26400
Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805
- PIPES (TUBES)**
Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
Sealed separable connection Patent
[NASA-CASE-NPO-10064] c 15 N71-17693
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865
Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122
Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
Honeycomb core structures of minimal surface tubule sections
[NASA-CASE-ERC-10363] c 18 N72-25541
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512

Method of fabricating a twisted composite superconductor
 [NASA-CASE-LEW-11015] c 26 N73-32571
 Open tube guideway for high speed air cushioned vehicles
 [NASA-CASE-LAR-10256-1] c 85 N74-34672
 Method for fabricating a mass spectrometer inlet leak
 [NASA-CASE-GSC-12077-1] c 35 N77-24455
 Precision heat forming of tetrafluoroethylene tubing
 [NASA-CASE-MSC-18430-1] c 37 N82-24491
 Open ended tubing cutters
 [NASA-CASE-MSC-18538-1] c 37 N82-26672
 Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
 [NASA-CASE-LEW-13107-2] c 52 N84-23095
 Tubing and cable cutting tool
 [NASA-CASE-LAR-12786-1] c 37 N84-28085
 Fluid leak indicator
 [NASA-CASE-MSC-20783-1] c 35 N86-20756
 Method of repairing hidden leaks in tubes
 [NASA-CASE-MFS-19796-1] c 37 N86-32736
 Self-contained, single-use hose and tubing cleaning module
 [NASA-CASE-MSC-20857-1] c 37 N87-17035
 Liquid seeding atomizer
 [NASA-CASE-ARC-11631-1] c 34 N87-21255
 Tube coupling device
 [NASA-CASE-MFS-25964-2] c 37 N87-22977
 Tapered, tubular polyester fabric
 [NASA-CASE-MSC-21082-1] c 27 N87-29672
 Tool and process for miniature explosive joining of tubes
 [NASA-CASE-LAR-13662-1] c 37 N88-14359
 Quick connect coupling
 [NASA-CASE-MSC-21539-1] c 37 N91-14610

PISTON ENGINES
 Stirling cycle engine and refrigeration systems
 [NASA-CASE-NPO-13613-1] c 37 N76-29590
 Hot gas engine with dual crankshafts
 [NASA-CASE-NPO-14221-1] c 37 N81-25370
 Solar engine
 [NASA-CASE-LAR-12148-1] c 44 N82-24640
 Stirling cycle cryogenic cooler
 [US-PATENT-4,389,849] c 44 N83-28574

PISTONS
 Automatic pump Patent
 [NASA-CASE-XNP-04731] c 15 N71-24042
 Firefly pump-metering system
 [NASA-CASE-GSC-10218-1] c 15 N72-21465
 Collapsible pistons
 [NASA-CASE-MSC-13789-1] c 11 N73-32152
 Airflow control system for supersonic inlets
 [NASA-CASE-LEW-11188-1] c 02 N74-20646
 Free-piston regenerative hot gas hydraulic engine
 [NASA-CASE-LEW-12274-1] c 37 N80-31790
 Power control for hot gas engines
 [NASA-CASE-NPO-14220-1] c 37 N81-14318
 Multiple plate hydrostatic viscous damper
 [NASA-CASE-LEW-12445-1] c 37 N81-22360
 Gas-to-hydraulic power converter
 [NASA-CASE-MSC-18794-1] c 44 N83-14693
 Centrifugal-reciprocating compressor
 [NASA-CASE-NPO-14597-2] c 37 N84-28081
 Lightweight piston
 [NASA-CASE-LAR-13150-1] c 24 N87-27742
 Composite piston
 [NASA-CASE-LAR-13435-1] c 37 N88-23981
 Lightweight piston architecture
 [NASA-CASE-LAR-13926-1] c 37 N90-22042
 Method and apparatus for waste collection and storage
 [NASA-CASE-MSC-21025-3] c 54 N91-26747

PITCH (INCLINATION)
 Reverse pitch fan with divided splitter
 [NASA-CASE-LEW-12760-1] c 07 N77-17059
 Velocity vector control system augmented with direct lift control
 [NASA-CASE-LAR-12268-1] c 08 N81-24106
 Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
 [NASA-CASE-LAR-12562-1] c 08 N81-26152
 Swashplate control system
 [NASA-CASE-ARC-11633-1] c 08 N87-23631

PITCHING MOMENTS
 High lift, low pitching moment airfoils
 [NASA-CASE-LAR-13215-1] c 02 N89-14224

PIVOTS
 Tension measurement device Patent
 [NASA-CASE-XMS-04545] c 15 N71-22878
 Unidirectional flexural pivot
 [NASA-CASE-GSC-12622-1] c 37 N84-12492
 Joint for deployable structures
 [NASA-CASE-NPO-16038-1] c 37 N86-19605
 Thumb-actuated two-axis controller
 [NASA-CASE-ARC-11372-1] c 08 N86-27288

PIXELS

Programmable remapper with single flow architecture
 [NASA-CASE-MSC-21481-1] c 60 N91-13890

PLANAR STRUCTURES

Window defect planar mapping technique
 [NASA-CASE-MSC-19442-1] c 74 N77-10899
 Method and apparatus for preparing multiconductor cable with flat conductors
 [NASA-CASE-MFS-10946-1] c 31 N79-21226
 High voltage planar multijunction solar cell
 [NASA-CASE-LEW-13400-1] c 44 N82-31764
 Dual cathode system for electron beam instruments
 [NASA-CASE-NPO-16878-1-CU] c 35 N90-20351

PLANE WAVES

Multiple reflection conical microwave antenna
 [NASA-CASE-NPO-11661] c 07 N73-14130

PLANETARY ATMOSPHERES

Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
 [NASA-CASE-XAC-08494] c 30 N71-15990
 Flow field simulation Patent
 [NASA-CASE-LAR-11138] c 12 N71-20436
 Ablation sensor Patent
 [NASA-CASE-XLA-01791] c 14 N71-22991

PLANETARY GRAVITATION

Impact simulator Patent
 [NASA-CASE-XLA-00493] c 11 N70-34786
 Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
 [NASA-CASE-XNP-00708] c 14 N70-35394

PLANETARY LANDING

Parachute glider Patent
 [NASA-CASE-XLA-00898] c 02 N70-36804
 Omnidirectional multiple impact landing system Patent
 [NASA-CASE-XLA-09881] c 31 N71-16085

PLANETARY MAPPING

Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
 [NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

PLANETARY ORBITS

Flexible foam erectable space structures Patent
 [NASA-CASE-XLA-00686] c 31 N70-34135
 Erectable modular space station Patent
 [NASA-CASE-XLA-00678] c 31 N70-34296

PLANETARY RADIATION

Attitude sensor for space vehicles Patent
 [NASA-CASE-XLA-00793] c 21 N71-22880

PLANETARY SURFACES

Method and apparatus for mapping planets
 [NASA-CASE-NPO-11001] c 07 N72-21118
 Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
 [NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

PLANTS (BOTANY)

Rotary plant growth accelerating apparatus --- weightlessness
 [NASA-CASE-ARC-10722-1] c 51 N75-25503
 Molten salt hydrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
 [NASA-CASE-NPO-14315-1] c 27 N81-17261
 Enhancement of in vitro guayule propagation
 [NASA-CASE-NPO-15213-1] c 51 N83-17045
 Method and apparatus for bio-regenerative life support system
 [NASA-CASE-MSC-21629-1] c 54 N91-31803

PLASMA ACCELERATION

Apparatus for increasing ion engine beam density Patent
 [NASA-CASE-XLE-00519] c 28 N70-41576
 Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
 [NASA-CASE-MFS-20589] c 25 N72-32688

PLASMA ACCELERATORS

Plasma accelerator Patent
 [NASA-CASE-XLA-00675] c 25 N70-33267
 Continuously operating induction plasma accelerator Patent
 [NASA-CASE-XLA-01354] c 25 N70-36946
 Crossed-field MHD plasma generator/ accelerator Patent
 [NASA-CASE-XLA-03374] c 25 N71-15562
 Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
 [NASA-CASE-XLA-03103] c 25 N71-21693
 Magnetically controlled plasma accelerator Patent
 [NASA-CASE-XLA-00327] c 25 N71-29184
 Two stage light gas-plasma projectile accelerator
 [NASA-CASE-MFS-22287-1] c 75 N76-14931

PLASMA ARC WELDING

ARC length control for plasma welding
 [NASA-CASE-MSC-20900-1] c 37 N88-30131

PLASMA CONTROL

Superconductive magnetic-field-trapping device
 [NASA-CASE-XNP-01185] c 26 N73-28710

Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
 [NASA-CASE-MFS-22145-1] c 75 N75-13625

PLASMA CYLINDERS

Plasma fluidic hybrid display Patent
 [NASA-CASE-ERC-10100] c 09 N71-33519

PLASMA DENSITY

Focusing system for an ion source having apertured electrodes Patent
 [NASA-CASE-XNP-03332] c 09 N71-10618
 Measurement of plasma temperature and density using radiation absorption
 [NASA-CASE-ARC-10598-1] c 75 N74-30156
 Hollow cathode apparatus
 [NASA-CASE-NPO-15560-1] c 33 N85-21491

PLASMA DIAGNOSTICS

Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
 [NASA-CASE-XLE-00690] c 25 N69-39884
 Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
 [NASA-CASE-XAC-05695] c 25 N71-16073
 Measurement of plasma temperature and density using radiation absorption
 [NASA-CASE-ARC-10598-1] c 75 N74-30156
 Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
 [NASA-CASE-NPO-16789-1-CU] c 72 N89-29169

PLASMA DYNAMICS

Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
 [NASA-CASE-XAC-05695] c 25 N71-16073
 Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
 [NASA-CASE-MFS-22145-1] c 75 N75-13625

PLASMA ENGINES

Plasma device feed system Patent
 [NASA-CASE-XLE-02902] c 25 N71-21694
 Hybrid plume plasma rocket
 [NASA-CASE-MSC-20476-2] c 20 N89-25279
 High temperature refractory member with radiation emissive overcoat
 [NASA-CASE-NPO-17122-1-CU] c 27 N91-14489

PLASMA GENERATORS

Method and apparatus for producing a plasma Patent
 [NASA-CASE-XLA-00147] c 25 N70-34661
 Crossed-field MHD plasma generator/ accelerator Patent
 [NASA-CASE-XLA-03374] c 25 N71-15562
 Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
 [NASA-CASE-MFS-20589] c 25 N72-32688
 Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
 [NASA-CASE-MFS-22145-1] c 75 N75-13625
 Self-energized plasma compressor
 [NASA-CASE-MFS-22145-2] c 75 N76-17951
 Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
 [NASA-CASE-XNP-04167-3] c 36 N77-19416

PLASMA GUNS

Method of making a diffusion bonded refractory coating Patent
 [NASA-CASE-XLE-01604-2] c 15 N71-15610
 Plasma gun with coaxial powder feed and adjustable cathode
 [NASA-CASE-LEW-14901-1] c 75 N91-25875

PLASMA JETS

Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
 [NASA-CASE-ARC-10643-1] c 25 N75-12087
 Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
 [NASA-CASE-XLE-10717] c 37 N75-29426
 Plasma cleaning device --- designed for high vacuum environments
 [NASA-CASE-MFS-22906-1] c 75 N78-27913
 Etching method for photoresists or polymers
 [NASA-CASE-ARC-11873-2] c 25 N91-31258

PLASMA LAYERS

Electrostatic plasma modulator for space vehicle re-entry communication Patent
 [NASA-CASE-XLA-01400] c 07 N70-41331
 Means for communicating through a layer of ionized gases Patent
 [NASA-CASE-XLA-01127] c 07 N70-41372
 Reentry communication by material addition Patent
 [NASA-CASE-XLA-01552] c 07 N71-11284

PLASMA POTENTIALS

Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429

PLASMA PROBES

Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747

PLASMA PROPULSION

Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279

PLASMA RADIATION

Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753

PLASMA SHEATHS

Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563

PLASMA SPRAYING

Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N91-13500
Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145
Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N91-25875
Method of preparing a thermal barrier coating
[NASA-CASE-LEW-14999-2] c 27 N91-26376
Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N92-21725

PLASMA TEMPERATURE

Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

PLASMA-ELECTROMAGNETIC INTERACTION

Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

PLASMAS (PHYSICS)

Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298

PLASMONS

Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768

PLASTIC COATINGS

Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727

PLASTIC DEFORMATION

Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170

PLASTIC PROPERTIES

Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198

PLASTIC TAPES

Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472

PLASTICIZERS

Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

PLASTICS

Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315

PLATENS

Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312

PLATES

Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540

PLATES (STRUCTURAL MEMBERS)

Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
Three point lead screw positioning apparatus
[NASA-CASE-LEW-15216-1] c 37 N92-17678

PLATFORMS

Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-2] c 18 N89-28554

PLATING

Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494

PLATINUM

Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
Platinum resistance thermometer circuit
[NASA-CASE-MSC-12327-1] c 35 N77-27368

PLATINUM ALLOYS

Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

PLAYBACKS

Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246

PLENUM CHAMBERS

Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568

PLETHYSMOGRAPHY

Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

PLOTTERS

Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

PLOTTING

Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

PLUG NOZZLES

Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

PLUGS

Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
Method of producing a plug type heat flux gauge
[NASA-CASE-LEW-14967-2] c 35 N91-23460
Thruster sealing system and apparatus
[NASA-CASE-MSC-21898-1] c 37 N92-17872
Method of producing a plug-type heat flux gauge
[NASA-CASE-LEW-14967-2] c 35 N92-22038

PLUMES

Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N92-15114

PLUNGERS

Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 37 N91-24577
Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 31 N92-16161

PNEUMATIC CONTROL

Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Valve actuator Patent
[NASA-CASE-XHG-01208] c 15 N70-35409
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465

PNEUMATIC EQUIPMENT

High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485
Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465

- Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
- System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
- Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
- Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
- Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
- Woven angle ply fabric and apparatus and method for producing such fabrics
[NASA-CASE-LAR-14048-1] c 31 N92-11220

POINT SOURCES

- Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
- X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
- Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

POINTING CONTROL SYSTEMS

- Rotable accurate reflector system for telescopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229
- All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399
- Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
- Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372
- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951

POINTS (MATHEMATICS)

- Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

POLAR ORBITS

- Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676

POLARIMETERS

- Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
- Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446

POLARIMETRY

- Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541
- Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594

POLARITY

- Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
- Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
- Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
- Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661
- Electrorepulsive actuator
[NASA-CASE-NPO-17684-1-CU] c 33 N92-22042

POLARIZATION (WAVES)

- System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
- Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
- Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381

POLARIZED ELECTROMAGNETIC RADIATION

- Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
- Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
- Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
- Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
- Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904

POLARIZED LIGHT

- Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
- Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-26867

POLARIZED RADIATION

- Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685

POLARIZERS

- Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
- Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
- Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N91-23889

POLES

- Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

POLISHING

- Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
- Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

POLLUTION CONTROL

- System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
- Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
- Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
- Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
- Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662

POLLUTION MONITORING

- Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
- Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
- Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
- Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
- Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

POLYAMIDE RESINS

- Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
- Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484

- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
- Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
- Fire and heat resistant laminating resins based on maleimide and citraconimide substituted 1,2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751
- Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
- A process for preparing 1,3-diamino-5-pentafluorosulfanylbenzene and polymers therefrom
[NASA-CASE-LAR-14773-1-CU] c 27 N92-10105
- Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198
- Processing for maximizing the level of crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-14481-1] c 25 N92-16043

POLYBENZIMIDAZOLE

- Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232

POLYBUTADIENE

- New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251

- Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
- Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

POLYCARBONATES

- Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
- Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
- Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091

POLYCRYSTALS

- Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
- Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
- Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
- Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111

POLYESTERS

- Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
- Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
- Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
- Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
- Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
- Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
- Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

POLYETHER RESINS

- Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
- Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
- Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
- Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
- Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

POLYIMIDE RESINS

- Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263
- Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205
- Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
- Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
- Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
- Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
- Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
- Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351

- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
- Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
- High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
- Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
- Seminterpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334
- Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566
- Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230
- A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121
- Semi-interpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N92-21711
- POLYIMIDES**
- Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
- Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
- Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
- Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268
- Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
- Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
- Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
- Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078
- Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
- Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
- Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
- Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
- Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124
- Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
- Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
- Maleimido substituted aromatic cyclophosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
- Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
- High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
- Poly(carbonate-imide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
- Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
- Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
- Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
- Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
- Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
- Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657
- Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
- Novel polyimide compositions based on 4,4': Isophthaloyldiphthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
- Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
- Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
- New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
- Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1CU] c 23 N90-21118
- Process for lowering the dielectric constant of polyimides using diamic acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546
- A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881
- Polyimideazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954
- A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955
- Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
- Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559
- Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1CU] c 27 N91-13560
- Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N91-13561
- Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2CU] c 23 N91-14418
- Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N91-15403
- Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
- Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562
- Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N91-28425
- Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1CU] c 27 N92-11198
- Low toxicity high temperature PMR polyimides
[NASA-CASE-LAR-14639-1] c 27 N92-11199
- Diphenylmethane-containing dianhydride and polyimides prepared therefrom
[NASA-CASE-LAR-14487-1] c 27 N92-11200
- A process for preparing an assembly of an article and a polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14538-1] c 27 N92-11201
- A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121
- Processing for maximizing the level of crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-14481-1] c 25 N92-16043
- Polyimides containing amide and perfluoroisopropyl connecting groups
[NASA-CASE-LAR-14608-1] c 27 N92-17676
- Tough, high performance, addition-type thermoplastic polymers
[NASA-CASE-LAR-14346-1] c 27 N92-22044
- POLYISOBUTYLENE**
- Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
- POLYISOPRENES**
- Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
- POLYMER CHEMISTRY**
- Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
- Synthesis of siloxane-containing epoxy polymers
Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
- Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
- Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263
- Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
- Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205
- Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
- Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
- In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
- Bifunctional monomers having terminal oxime and cyano or amine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
- In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
- Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- Process for the preparation of polycarbonarylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
- Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
- Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
- Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
- Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
- Aminophenoxy-cyclophosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
- The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
- Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
- Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814
- New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
- N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419
- Ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N91-15402
- A process for preparing 1,3-diamino-5-pentafluorosulfanylbenzene and polymers therefrom
[NASA-CASE-LAR-14773-1CU] c 27 N92-10105
- Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1CU] c 27 N92-11198
- Diphenylmethane-containing dianhydride and polyimides prepared therefrom
[NASA-CASE-LAR-14487-1] c 27 N92-11200
- Substituted 1,1,1-Triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-6] c 23 N92-17882
- POLYMER MATRIX COMPOSITES**
- Intumescent-ablators coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
- Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1CU] c 27 N86-20560
- Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
- Seminterpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334
- Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N91-15403
- Semi-interpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N92-21711
- Tough, high performance, addition-type thermoplastic polymers
[NASA-CASE-LAR-14346-1] c 27 N92-22044

POLYMERIC FILMS

Processing for producing a sterilized instrument Patent
 [NASA-CASE-XNP-09763] c 14 N71-20461
 Hydraulic casting of liquid polymers Patent
 [NASA-CASE-XNP-07659] c 06 N71-22975
 Thermoelectric radiometer utilizing polymer film
 [NASA-CASE-ARC-10138-1] c 14 N72-24477
 Apparatus and method for skin packaging articles
 [NASA-CASE-MFS-20855] c 15 N73-27405
 Covered silicon solar cells and method of manufacture
 --- with polymeric films
 [NASA-CASE-LEW-11065-2] c 44 N76-14600
 Preparation of dielectric coating of variable dielectric constant by plasma polymerization
 [NASA-CASE-ARC-10892-2] c 27 N79-14214
 Reverse osmosis membrane of high urea rejection properties --- water purification
 [NASA-CASE-ARC-10980-1] c 27 N80-23452
 Surface finishing
 [NASA-CASE-MSC-12631-3] c 27 N81-14077
 Cross-linked polyvinyl alcohol and method of making same
 [NASA-CASE-LEW-13101-2] c 23 N81-29160
 Separator for alkaline electric cells and method of making
 [NASA-CASE-GSC-10017-1] c 44 N82-24643
 Electrically conductive palladium containing polyimide films
 [NASA-CASE-LAR-12705-1] c 25 N82-26396
 Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
 [NASA-CASE-LEW-13120-1] c 27 N82-28440
 Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
 [NASA-CASE-ARC-11359-1] c 51 N84-28361
 Metal phthalocyanine intermediates for the preparation of polymers
 [NASA-CASE-ARC-11405-2] c 27 N86-19455
 High temperature polyimide film laminates and process for preparation thereof
 [NASA-CASE-LAR-13384-1] c 27 N86-20561
 Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
 [NASA-CASE-LAR-13353-1] c 27 N86-29039
 Process for preparing highly optically transparent/colorless aromatic polyimide film
 [NASA-CASE-LAR-13351-1] c 27 N86-31727
 Polyenamines from aromatic diacetylenic diketones and diamines
 [NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
 Water-absorbing capacitor system for measuring relative humidity
 [NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
 Polymeric heat pipe wick
 [NASA-CASE-GSC-13019-1] c 34 N88-29133
 Polyenamines from aromatic diacetylenic diketones and diamines
 [NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
 Method and apparatus for maintaining thermal control in plasma conditions
 [NASA-CASE-MFS-28368-1] c 75 N90-10717
 Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
 [NASA-CASE-LAR-13696-1] c 37 N90-20409
 Low dielectric fluorinated poly(phenylene ether ketone) film and coating
 [NASA-CASE-LAR-13992-1-CU] c 23 N91-27220
 Slow positron beam generator for lifetime studies
 [NASA-CASE-LAR-14250-1-SB] c 72 N91-27936
 Composite flexible blanket insulation
 [NASA-CASE-NPO-11907-1-NP] c 24 N91-31236

POLYMERIZATION
 New polymers of perfluorobutadiene and method of manufacture Patent application
 [NASA-CASE-NPO-10863] c 06 N70-11251
 Method of polymerizing perfluorobutadiene Patent application
 [NASA-CASE-NPO-10447] c 06 N70-11252
 Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4,5-tetraamino-benzene Patent
 [NASA-CASE-XLA-03104] c 06 N71-11235
 Imidazopyrrolone/imide copolymers Patent
 [NASA-CASE-XLA-08802] c 06 N71-11238
 Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
 [NASA-CASE-XMF-08655] c 06 N71-11239
 Azine polymers and process for preparing the same Patent
 [NASA-CASE-XMF-08656] c 06 N71-11242
 Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
 [NASA-CASE-XMF-08652] c 06 N71-11243
 Elastomeric silazane polymers and process for preparing the same Patent
 [NASA-CASE-XMF-04133] c 06 N71-20717

Reaction of fluorine with polyperfluoropolyenes
 [NASA-CASE-NPO-10862] c 06 N72-22107
 Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
 [NASA-CASE-MFS-20979] c 06 N72-25151
 Polymers of perfluorobutadiene and method of manufacture
 [NASA-CASE-NPO-10863-2] c 06 N72-25152
 Fluorohydroxy ethers
 [NASA-CASE-MFS-10507] c 06 N73-30101
 Highly fluorinated polymers
 [NASA-CASE-MFS-11492] c 06 N73-30102
 Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
 [NASA-CASE-ARC-10643-1] c 25 N75-12087
 Utilization of oxygen difluoride for syntheses of fluoropolymers
 [NASA-CASE-NPO-12061-1] c 27 N76-16228
 Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
 [NASA-CASE-NPO-10557] c 27 N78-17214
 Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
 [NASA-CASE-ARC-11008-1] c 27 N78-31232
 Ambient cure polyimide foams --- thermal resistant foams
 [NASA-CASE-ARC-11170-1] c 27 N79-11215
 Preparation of heterocyclic block copolymer omega-diamidoximes
 [NASA-CASE-ARC-11060-1] c 27 N79-22300
 Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
 [NASA-CASE-LEW-12053-2] c 27 N79-28307
 Mixed diamines for lower melting addition polyimide preparation and utilization
 [NASA-CASE-LAR-12054-1] c 27 N79-33316
 Compound oxidized styrylphosphine --- flame resistant vinyl polymers
 [NASA-CASE-MSC-14903-2] c 27 N80-10358
 Heat resistant polymers of oxidized styrylphosphine
 [NASA-CASE-MSC-14903-3] c 27 N80-24438
 Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
 [NASA-CASE-ARC-11241-1] c 25 N81-14016
 Viscoelastic cationic polymers containing the urethane linkage
 [NASA-CASE-NPO-10830-1] c 27 N81-15104
 Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
 [NASA-CASE-ARC-11248-1] c 27 N81-17259
 The 1,2,4-oxadiazole elastomers --- heat resistant polymers
 [NASA-CASE-ARC-11253-1] c 27 N81-17262
 Process for preparation of large-particle-size monodisperse latexes
 [NASA-CASE-MFS-25000-1] c 25 N81-19242
 Ion-exchange hollow fibers
 [NASA-CASE-NPO-13309-1] c 25 N81-19244
 Carboranyl cyclotriphosphazenes and their polymers --- thermal insulation
 [NASA-CASE-ARC-11176-1] c 27 N82-18389
 Electrically conductive palladium containing polyimide films
 [NASA-CASE-LAR-12705-1] c 25 N82-26396
 Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
 [NASA-CASE-LAR-12858-1] c 27 N83-34041
 Elastomer-modified phosphorus-containing imide resins
 [NASA-CASE-ARC-11400-1] c 27 N84-14322
 Supercritical solvent coal extraction
 [NASA-CASE-NPO-15210-1] c 25 N84-22709
 Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
 [NASA-CASE-LAR-12723-2] c 27 N84-22746
 Polyphenylene ethers with imide linking groups
 [NASA-CASE-LAR-12980-1] c 27 N84-22749
 Carboranyl methylene-substituted phosphazenes and polymers thereof
 [NASA-CASE-ARC-11370-1] c 27 N84-22750
 Metal phthalocyanine polymers
 [NASA-CASE-ARC-11405-1] c 27 N84-27884
 Phthalocyanine polymers
 [NASA-CASE-ARC-11413-1] c 27 N85-21348
 Stabilized unsaturated polyesters
 [NASA-CASE-NPO-16103-1] c 27 N85-29043
 Maleimido substituted aromatic cyclotriphosphazenes
 [NASA-CASE-ARC-11428-1] c 23 N86-19376
 Ethynyl and substituted ethynyl-terminated polysulfones
 [NASA-CASE-LAR-12931-2] c 27 N86-21675

Laminate comprising fibers embedded in cured amine terminated bis-imide
 [NASA-CASE-ARC-11421-3] c 24 N86-25416
 Sulfone-ester polymers containing pendent ethynyl groups
 [NASA-CASE-LAR-13316-1] c 27 N86-27450
 Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
 [NASA-CASE-ARC-11506-2] c 23 N86-32525
 Polyarylene ethers with improved properties
 [NASA-CASE-LAR-13555-1] c 23 N86-32526
 The 5-(4-Ethynylphenoxy) isophthalic chloride
 [NASA-CASE-LAR-13316-2] c 27 N87-14515
 Ethynyl terminated ester oligomers and polymers therefrom
 [NASA-CASE-LAR-13118-2] c 27 N87-16907
 Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
 [NASA-CASE-ARC-11511-2] c 27 N87-21112
 Polyenamines from aromatic diacetylenic diketones and diamines
 [NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
 Process for crosslinking and extending conjugated diene-containing polymers
 [NASA-CASE-LAR-13452-1] c 27 N87-22848
 Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-2,4- and -2,6-diaminobenzenes
 [NASA-CASE-ARC-11533-1] c 27 N87-24564
 Polyimides containing carbonyl and ether connecting groups
 [NASA-CASE-LAR-13633-1] c 27 N87-24575
 Process for developing crystallinity in linear aromatic polyimides
 [NASA-CASE-LAR-13732-1] c 27 N87-25474
 Semi-2-interpenetrating networks of high temperature systems
 [NASA-CASE-LAR-13450-1] c 27 N87-28657
 Aromatic cyclotriphosphazenes
 [NASA-CASE-ARC-11428-3] c 23 N88-24692
 Polyenamines from aromatic diacetylenic diketones and diamines
 [NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
 Predictive aging of polymers
 [NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
 Cellular thermosetting fluorodiepoxide polymers
 [NASA-CASE-GSC-13008-2] c 27 N90-16949
 Copolyimide with a combination of flexibilizing groups
 [NASA-CASE-LAR-13821-1] c 27 N90-16950
 New Condensation polyimides containing 1,1-triaryl-2,2,2-trifluoroethane structures
 [NASA-CASE-LEW-14346-1] c 23 N90-19300
 The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
 [NASA-CASE-ARC-11425-4] c 23 N90-20133
 Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
 [NASA-CASE-LAR-13448-1] c 27 N90-21198
 Some 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-dinitro-benzenes
 [NASA-CASE-ARC-11425-3] c 23 N90-23475
 Nonintrusive method and apparatus for monitoring the cure of polymeric materials
 [NASA-CASE-LAR-13465-1] c 27 N90-23544
 Graphite fluoride fiber polymer composite material
 [NASA-CASE-LEW-14472-1] c 24 N91-15320
 Ladder polymers for use as high temperature stable resins or coatings
 [NASA-CASE-LEW-14203-1] c 27 N91-15402
 Processable polyimide adhesive and matrix composite resin
 [NASA-CASE-LAR-14101-1] c 27 N91-15403
 Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
 [NASA-CASE-LAR-14427-1] c 23 N91-23237
 Low dielectric fluorinated poly(phenylene ether ketone) film and coating
 [NASA-CASE-LAR-13992-1-CU] c 23 N91-27220
 Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
 [NASA-CASE-NPO-17633-1-CU] c 27 N91-27372
 Polyimides prepared from 3,5-diamino benzo trifluoride
 [NASA-CASE-LAR-14206-1] c 27 N91-28425
 Addition polyimides with enhanced processability
 [NASA-CASE-LEW-15043-1] c 27 N91-32230
 Low toxicity high temperature PMR polyimides
 [NASA-CASE-LAR-14639-1] c 27 N92-11199
 A process for preparing an assembly of an article and a polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
 [NASA-CASE-LAR-14538-1] c 27 N92-11201

- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-6] c 23 N92-17882
- Tough, high performance, addition-type thermoplastic polymers
[NASA-CASE-LAR-14346-1] c 27 N92-22044
- POLYMERS**
Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237
- Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
- Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
- Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
- Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903
- Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147
- Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
- Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
- Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
- Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
- Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
- Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
- Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
- Carboranyl-methylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
- Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
- Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
- Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560
- Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258
- Process for application of powder particles to filamentary materials
[NASA-CASE-LAR-14231-1] c 24 N92-10070
- Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374
- POLYMETHYL METHACRYLATE**
Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
- Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
- POLYPHENYL ETHER**
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
- Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N91-27220
- POLYPHENYLS**
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
- Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
- Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814
- Polyphenylquinoxalines containing alkylendioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
- Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N91-27220
- Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230
- POLYQUINOXALINES**
Polyphenylquinoxalines containing alkylendioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
- POLYSACCHARIDES**
Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236
- POLYTETRAFLUOROETHYLENE**
Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
- Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044
- POLYURETHANE FOAM**
Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
- Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
- Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
- Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
- Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c 37 N76-19436
- Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
- POLYURETHANE RESINS**
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
- Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
- Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
- Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
- Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
- Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
- POLYVINYL ALCOHOL**
In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
- Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
- In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
- Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
- Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
- Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
- POLYVINYL CHLORIDE**
Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733
- PONDS**
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474
- PORCELAIN**
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
- POROSITY**
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
- Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
- Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
- Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427
- Regenerative Cu/La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073
- Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026
- Active control of pressure loads using passive porosity
[NASA-CASE-LAR-14594-1] c 34 N92-17888
- Passive control of pressure loads using porosity
[NASA-CASE-LAR-14547-1] c 34 N92-17909
- POROUS MATERIALS**
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
- Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
- Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048
- Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993
- Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
- Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
- Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
- Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
- Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
- Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
- Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
- Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
- Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
- Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
- Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
- POROUS PLATES**
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
- PORPHYRINS**
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
- PORTABLE EQUIPMENT**
Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
- Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
- Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
- Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
- Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518
- One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085
- Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
- Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
- Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
- System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395
- Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454
- Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163
- Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
- Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
- Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299
- Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
- Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
- Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766

Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294

Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631

Portable 90 degree proof loading device
[NASA-CASE-MS-C-20250-1] c 35 N86-19581

Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652

PORTABLE LIFE SUPPORT SYSTEMS

Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MS-C-16182-1] c 54 N80-10799

PORTS (OPENINGS)

Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256

Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343

POSITION (LOCATION)

Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958

Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090

Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067

Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080

Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173

Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696

Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389

Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877

Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194

Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331

Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140

Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404

X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898

Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300

Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422

Acoustic controlled rotation and orientation
[NASA-CASE-NPO-16995-1-CU] c 71 N90-12289

Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096

Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807

Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512

System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621

Two dimensional vernier
[NASA-CASE-MS-C-21700-1] c 35 N91-23462

Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530

Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811

Method for non-destructive estimation of waveguide directional coupler dimensions
[NASA-CASE-NPO-18454-1-CU] c 33 N92-17865

Two dimensional vernier
[NASA-CASE-MS-C-21700-1] c 35 N92-22039

POSITION INDICATORS

Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432

Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179

Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099

Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585

Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401

Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174

Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367

Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MS-C-12593-1] c 17 N76-21250

Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552

Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678

Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N89-14374

Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522

Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008

POSITION SENSING

Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099

Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N91-14001

POSITIONING

Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898

Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371

Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955

Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740

Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813

Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807

Alignment positioning mechanism
[NASA-CASE-MS-C-21502-1] c 37 N91-21543

Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811

POSITIONING DEVICES (MACHINERY)

Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812

Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283

Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462

Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267

Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304

Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014

Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760

Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400

Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083

Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629

Gripping device
[NASA-CASE-MS-C-21365-1] c 37 N90-20408

Three point lead screw positioning apparatus
[NASA-CASE-LEW-15216-1] c 37 N92-17678

POSITIVE FEEDBACK

Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015

POSITRONS

Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

POTABLE WATER

Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207

Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086

Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933

Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779

Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853

Iodine generator for reclaimed water purification
[NASA-CASE-MS-C-14632-1] c 54 N78-14784

Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MS-C-18936-1] c 35 N83-29652

Regenerable biocide delivery unit
[NASA-CASE-MS-C-21763-1] c 51 N91-25570

POTASSIUM SILICATES

Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014

POTENTIOMETERS

Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395

POTENTIOMETERS (INSTRUMENTS)

Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073

Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809

Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952

Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698

POTTING COMPOUNDS

Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409

Flexible, repairable, pottable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881

Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105

POWDER (PARTICLES)

Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358

Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502

Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559

Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200

Process for application of powder particles to filamentary materials
[NASA-CASE-LAR-14231-1] c 24 N92-10070

Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122

POWDER METALLURGY

Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076

Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137

Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121

Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448

Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465

Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521

Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c 37 N74-13179

Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311

Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

One step HIP canning of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493

Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-27244

POWERED ALUMINUM

Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206

POWER AMPLIFIERS

Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559

Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961

Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331

Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429

POWER CONDITIONING
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095

POWER CONVERTERS
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
Transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N92-17907

POWER EFFICIENCY
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

POWER FACTOR CONTROLLERS
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877

POWER GAIN
Serrrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273

POWER LIMITERS
Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221

POWER LINES
Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

POWER REACTORS
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

POWER SERIES
Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693
Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292

POWER SPECTRA

Method and apparatus for high resolution spectral analysis
[NASA-CASE-NPO-10748] c 08 N72-20177
Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651

POWER SUPPLIES
Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931

POWER SUPPLY CIRCUITS
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Power supply circuit Patent
[NASA-CASE-NPO-00913] c 10 N71-23543
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34490
Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942

PREBURNERS
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

PRECESSION
Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295

PRECIPITATION (CHEMISTRY)
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502

Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

PRECIPITATORS
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320

PRECISION
Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148

PREDICTIONS
Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N91-23662

PREFLIGHT OPERATIONS
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545

PREFORMS
Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042
Braided composite fasteners and method for producing same
[NASA-CASE-LAR-14062-1] c 37 N90-27114
Woven angle ply fabric and apparatus and method for producing such fabrics
[NASA-CASE-LAR-14048-1] c 31 N92-11220
High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043

PRELAUNCH TESTS
Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566

PREPOLYMERS
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040

PREPREGS
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
Process for application of powder particles to filamentary materials
[NASA-CASE-LAR-14231-1] c 24 N92-10070

PRESSURE
Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
High temperature, flexible pressure-actuated, brush seal
[NASA-CASE-LEW-15086-1] c 37 N92-16318

PRESSURE CHAMBERS
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399

Safety shield for vacuum/pressure chamber viewing port
 [NASA-CASE-GSC-12513-1] c 31 N81-19343
 Weightlessness simulation system and process
 [NASA-CASE-ARC-11646-1] c 14 N87-25344

PRESSURE DISTRIBUTION
 Instrument for use in performing a controlled Valsalva maneuver Patent
 [NASA-CASE-XMS-01615] c 05 N70-41329
 Prevention of pressure build-up in electrochemical cells Patent
 [NASA-CASE-XGS-01419] c 03 N70-41864
 Accumulator
 [NASA-CASE-MFS-19287-1] c 34 N77-30399
 Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
 [NASA-CASE-MS-C-18134-1] c 37 N81-15363
 Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
 [NASA-CASE-LAR-12315-1] c 37 N82-24490
 Ultrasonic transducer with Gaussian radial pressure distribution
 [NASA-CASE-LAR-12967-1] c 35 N84-22932
 Active control of pressure loads using passive porosity
 [NASA-CASE-LAR-14594-1] c 34 N92-17888
 Passive control of pressure loads using porosity
 [NASA-CASE-LAR-14547-1] c 34 N92-17909

PRESSURE DRAG
 Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
 [NASA-CASE-LAR-13511-1] c 05 N88-23765

PRESSURE DROP
 Leak detector
 [NASA-CASE-MFS-21761-1] c 35 N75-15931

PRESSURE EFFECTS
 System for stabilizing cable phase delay utilizing a coaxial cable under pressure
 [NASA-CASE-NPO-13138-1] c 33 N74-17927
 Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
 [NASA-CASE-LAR-10782-2] c 31 N75-13111
 Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
 [NASA-CASE-MFS-19193-1] c 37 N75-19686
 Fluid pressure balanced seal
 [NASA-CASE-XGS-01286-1] c 37 N79-33469
 Real time pressure signal system for a rotary engine
 [NASA-CASE-LEW-13622-1] c 07 N84-22559
 Optical pressure sealing coupling apparatus
 [NASA-CASE-MFS-29348-1] c 74 N89-25689
 Ballast system for maintaining constant pressure in a glove box
 [NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
 Device for applying constant pressure to a surface
 [NASA-CASE-GSC-13230-1] c 37 N91-13734
 Thermal power transfer system using applied potential difference to sustain operating pressure difference
 [NASA-CASE-NPO-18034-1-CU] c 44 N92-16457

PRESSURE GAGES
 Differential pressure cell Patent
 [NASA-CASE-XAC-00042] c 14 N70-34816
 Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
 [NASA-CASE-XMS-08061] c 05 N71-23317
 Apparatus for testing a pressure responsive instrument Patent
 [NASA-CASE-XMF-04134] c 14 N71-23755
 Device for measuring pressure Patent
 [NASA-CASE-XAC-04458] c 14 N71-24232
 Ultrahigh vacuum gauge having two collector electrodes
 [NASA-CASE-LAR-02743] c 14 N73-32324
 Gas ion laser construction for electrically isolating the pressure gauge thereof
 [NASA-CASE-MFS-22597] c 36 N78-17366

PRESSURE GRADIENTS
 Positive displacement flowmeter Patent
 [NASA-CASE-XMF-02822] c 14 N70-41994
 Dual laser optical system and method for studying fluid flow
 [NASA-CASE-MFS-25315-1] c 36 N83-29680

PRESSURE HEADS
 Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
 [NASA-CASE-NPO-15227-1] c 37 N81-33482

PRESSURE MEASUREMENT
 Inertia diaphragm pressure transducer Patent
 [NASA-CASE-XAC-02981] c 14 N71-21072
 Linear differential pressure sensor Patent
 [NASA-CASE-XMF-01974] c 14 N71-22752
 Device for measuring pressure Patent
 [NASA-CASE-XAC-04458] c 14 N71-24232

Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
 [NASA-CASE-XER-11203] c 14 N71-28994

Sensing probe
 [NASA-CASE-LEW-10281-1] c 14 N72-17327
 Gauge calibration by diffusion
 [NASA-CASE-XGS-07752] c 14 N73-30390
 Apparatus for absolute pressure measurement
 [NASA-CASE-LAR-10000] c 14 N73-30394
 Wind tunnel model and method
 [NASA-CASE-LAR-10812-1] c 09 N74-17955
 Indicated mean-effective pressure instrument
 [NASA-CASE-LEW-12661-1] c 35 N79-14345
 High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
 [NASA-CASE-LAR-12375-1] c 32 N79-24203
 Static pressure orifice system testing method and apparatus
 [NASA-CASE-LAR-12269-1] c 35 N80-18358
 Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
 [NASA-CASE-LAR-12261-1] c 02 N80-20224
 Non-invasive method and apparatus for measuring pressure within a pliable vessel
 [NASA-CASE-ARC-11264-2] c 52 N83-29991
 Electronic scanning pressure measuring system and transducer package
 [NASA-CASE-ARC-11361-1] c 35 N84-22934
 Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
 [NASA-CASE-GSC-12558-1] c 36 N85-21639
 Device for quick changeover between wind tunnel force and pressure testing
 [NASA-CASE-LAR-13512-1] c 35 N87-28884
 Porous plug for reducing orifice induced pressure error in airfoils
 [NASA-CASE-LAR-13569-1] c 35 N89-12841
 Pressure measuring probe
 [NASA-CASE-LAR-13853-1] c 35 N89-14423
 Measurement of waves in flows across a surface
 [NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
 Probe insertion apparatus with inflatable seal
 [NASA-CASE-LEW-14965-1] c 37 N91-13732
 Fiber optic microphone
 [NASA-CASE-LAR-14402-1-CU] c 74 N91-15874
 Volumetric measurement of tank volume
 [NASA-CASE-MS-C-21500-1] c 35 N91-21493
 Tank gauging apparatus and method
 [NASA-CASE-MS-C-21059-3] c 35 N91-21495
 Acoustic device and method for measuring gas densities
 [NASA-CASE-NPO-18155-1-CU] c 71 N92-10609

PRESSURE PULSES
 Passive fetal monitoring sensor
 [NASA-CASE-LAR-14088-1] c 35 N91-13686

PRESSURE REDUCTION
 Relief valve
 [NASA-CASE-XMS-05894-1] c 15 N69-21924
 Sealed battery gas manifold construction Patent
 [NASA-CASE-XNP-03378] c 03 N71-11051
 Depressurization of arc lamps
 [NASA-CASE-NPO-10790-1] c 33 N77-21316
 Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
 [NASA-CASE-NPO-14474-1] c 26 N80-14229
 Pressure letdown method and device for coal conversion systems
 [NASA-CASE-NPO-15100-1] c 44 N84-14583
 Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
 [NASA-CASE-LEW-13107-2] c 52 N84-23095
 Method for growth of crystals by pressure reduction of supercritical or subcritical solution
 [NASA-CASE-NPO-15772-1] c 76 N85-29800
 System for venting gas from a liquid storage tank
 [NASA-CASE-MS-C-21253-1] c 31 N90-20254
 Volumetric measurement of tank volume
 [NASA-CASE-MS-C-21500-1] c 35 N91-21493

PRESSURE REGULATORS
 Pressure regulating system Patent
 [NASA-CASE-XNP-00450] c 15 N70-38603
 Resuscitation apparatus Patent
 [NASA-CASE-XMS-01115] c 05 N70-39922
 High pressure regulator valve Patent
 [NASA-CASE-XNP-00710] c 15 N71-10778
 Space suit pressure stabilizer Patent
 [NASA-CASE-XLA-05332] c 05 N71-11194
 Portable environmental control system Patent
 [NASA-CASE-XMS-09632-1] c 05 N71-11203
 Anti-backlash circuit for hydraulic drive system Patent
 [NASA-CASE-XNP-01020] c 03 N71-12260
 High impact pressure regulator Patent
 [NASA-CASE-NPO-10175] c 14 N71-18625

Underwater space suit pressure control regulator
 [NASA-CASE-MFS-20332] c 05 N72-20097
 Underwater space suit pressure control regulator
 [NASA-CASE-MFS-20332-2] c 05 N73-25125
 Combined pressure regulator and shutoff valve
 [NASA-CASE-NPO-13201-1] c 37 N75-15050
 Pressure modulating valve
 [NASA-CASE-MS-C-14905-1] c 37 N77-28487
 Flow compensating pressure regulator
 [NASA-CASE-LEW-12718-1] c 34 N78-25351
 Flow diverter valve and flow diversion method
 [NASA-CASE-HON-00573-1] c 37 N79-33468
 Intra-ocular pressure normalization technique and equipment
 [NASA-CASE-LEW-12955-1] c 52 N80-14684
 Intra-ocular pressure normalization technique and equipment
 [NASA-CASE-LEW-12723-1] c 52 N80-18690
 Pressure control valve --- inflating flexible bladders
 [NASA-CASE-ARC-11251-1] c 37 N81-17433
 Prosthetic urinary sphincter
 [NASA-CASE-MFS-23717-1] c 52 N81-25660
 Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
 [NASA-CASE-LEW-13107-1] c 52 N83-21785
 Vibration isolation and pressure compensation apparatus for sensitive instrumentation
 [NASA-CASE-LAR-12728-1] c 35 N83-32026
 Apparatus and method for jet noise suppression
 [NASA-CASE-LAR-11903-2] c 71 N84-14873
 Bio-reactor chamber
 [NASA-CASE-MS-C-20929-1] c 51 N91-14703
 Active control of pressure loads using passive porosity
 [NASA-CASE-LAR-14594-1] c 34 N92-17888
 Passive control of pressure loads using porosity
 [NASA-CASE-LAR-14547-1] c 34 N92-17909

PRESSURE SENSORS
 Pressure variable capacitor
 [NASA-CASE-XNP-09752] c 14 N69-21541
 Aerodynamic measuring device Patent
 [NASA-CASE-XLA-00481] c 14 N70-36824
 Check valve assembly for a probe Patent
 [NASA-CASE-XLA-00128] c 15 N70-37925
 Dynamic sensor Patent
 [NASA-CASE-XAC-02877] c 14 N70-41681
 Inertia diaphragm pressure transducer Patent
 [NASA-CASE-XAC-02981] c 14 N71-21072
 Linear differential pressure sensor Patent
 [NASA-CASE-XMF-01974] c 14 N71-22752
 Pressure transducer calibrator Patent
 [NASA-CASE-XNP-01660] c 14 N71-23036
 Instrument for measuring the dynamic behavior of liquids Patent
 [NASA-CASE-XLA-05541] c 12 N71-26387
 Pressure sensitive transducers Patent
 [NASA-CASE-ERC-10087] c 14 N71-27334
 Method of making pressurized panel Patent
 [NASA-CASE-XLA-08916] c 15 N71-29018
 Sensing probe
 [NASA-CASE-LEW-10281-1] c 14 N72-17327
 Pressure transducer
 [NASA-CASE-NPO-10832] c 14 N72-21405
 Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
 [NASA-CASE-LAR-10137-1] c 09 N72-22204
 Wide range dynamic pressure sensor
 [NASA-CASE-ARC-10263-1] c 14 N72-22438
 Differential pressure control
 [NASA-CASE-MFS-14216] c 14 N73-13418
 Pressurized panel
 [NASA-CASE-XLA-08916-2] c 14 N73-28487
 System for calibrating pressure transducer
 [NASA-CASE-LAR-10910-1] c 35 N74-13132
 Stagnation pressure probe --- for measuring pressure of supersonic gas streams
 [NASA-CASE-LAR-11139-1] c 35 N74-32878
 Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
 [NASA-CASE-LEW-11581-1] c 54 N75-13531
 Leak detector
 [NASA-CASE-MFS-21761-1] c 35 N75-15931
 Measurement of gas production of microorganisms --- using pressure sensors
 [NASA-CASE-LAR-11326-1] c 35 N75-33368
 Static pressure probe
 [NASA-CASE-LAR-11552-1] c 35 N76-14429
 Trielectrode capacitive pressure transducer
 [NASA-CASE-ARC-10711-2] c 33 N76-21390
 Catheter tip force transducer for cardiovascular research
 [NASA-CASE-NPO-13643-1] c 52 N76-29896
 Miniature biaxial strain transducer
 [NASA-CASE-LAR-11648-1] c 35 N77-14407
 Pressure transducer --- using a monomeric charge transfer complex sensor
 [NASA-CASE-NPO-11150] c 35 N78-17359

- Electronically scanned pressure sensor module with in
SITU calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
System for use in conducting wake investigation for a
wing in flight --- differential pressure measurements for
drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
Automatic compression adjusting mechanism for internal
combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
Electronic scanning pressure measuring system and
transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
Porous plug for reducing orifice induced pressure error
in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423
Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706
Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
Fiber optic microphone
[NASA-CASE-LAR-14402-1-CU] c 74 N91-15874
Pressure transducer and system for cryogenic
environments
[NASA-CASE-LAR-14579-1] c 35 N91-28546
Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586
- PRESSURE SUITS**
Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
Foreshortened convolute section for a pressurized suit
Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
Method of forming a root cord restrained convolute
section
[NASA-CASE-MSC-12398] c 05 N72-20098
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
Method and apparatus for simulating gravitational forces
on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803
- PRESSURE SWITCHES**
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392
- PRESSURE VESSELS**
Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577
Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
Method and apparatus for nondestructive testing of
pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Space Shuttle with rail system and aft thrust structure
securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
Oxygen recombination in individual pressure vessel
nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874
Cellular thermosetting fluoropolymers and process for
making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732
- Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N91-25415
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N92-21727
- PRESSURE WELDING**
Diffusion welding --- heat treatment of nickel alloys
following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
- PRESSURIZING**
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
- PRESTRESSING**
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
Method of manufacture of bonded fiber flywheel ---
fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
Apparatus for accurately preloading auger attachment
means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Preloaded brake disc
[NASA-CASE-MSC-21132-1] c 37 N88-29181
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N91-23490
- PRETREATMENT**
Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
Apparatus for accurately preloading auger attachment
means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
- PRINTED CIRCUITS**
Electrical feed-through connection for printed circuit
boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
Printed circuit board with bellows rivet connection
Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685
Method of coating circuit paths on printed circuit boards
with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133
Polyimide resin-fiberglass cloth laminates for printed
circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
Device for configuring multiple leads --- method for
connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977
Connector --- for connecting circuits on different layers
of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567
Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
- PRINTING**
Application of semiconductor diffusants to solar cells
by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
- PRINTOUTS**
Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133
- PRISMS**
Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
Method and apparatus for splitting a beam of energy
--- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900
Rhomboid prism pair for rotating the plane of parallel
light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
- PROBABILITY THEORY**
System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896
Multistage estimation of received carrier signal
parameters under very high dynamic conditions of the
receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
- PROBES**
Method and apparatus for securing to a spacecraft
Patent
[NASA-CASE-MFS-11133] c 31 N71-16222
Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
System and method for moving a probe to follow
movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
- PROCESS CONTROL (INDUSTRY)**
Photoelectric detection system --- manufacturing
automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Chemical approach for controlling nadimide cure
temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure
temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419
Method and apparatus for producing microshells
[NASA-CASE-NPO-16635-1-CU] c 31 N91-32240
A process for preparing
1,3-diamino-5-pentafluorosulfanylbenzene and polymers
therefrom
[NASA-CASE-LAR-14773-1-CU] c 27 N92-10105
Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198
Diphenylmethane-containing dianhydride and
polyimides prepared therefrom
[NASA-CASE-LAR-14487-1] c 27 N92-11200
- PROCESSING**
Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214
- PRODUCT DEVELOPMENT**
Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
Process for preparation of large-particle-size
monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Fiber optic crossbar switch for automatically patching
optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
- PRODUCTION ENGINEERING**
Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808
Method and apparatus for making curved reflectors
Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Method of making self lubricating fluoride- metal
composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105
Method of making impurity-type semiconductor electrical
contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Ion engine casing construction and method of making
same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618
Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-23230
Process for making sheets with parallel pores of uniform
size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
Solar cell collector and method for producing same
[NASA-CASE-LEW-12552-2] c 44 N79-11472
Multilevel metallization method for fabricating a metal
oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906

Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314

Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550

Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389

Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319

Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731

Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579

Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884

PROJECTILES

Self-obturing, gas operated launcher
[NASA-CASE-NPO-11013] c 11 N72-22247

Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931

Electromagnetic Meissner effect launcher
[NASA-CASE-MFS-28323-1] c 14 N92-15081

PROJECTION

Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

PROJECTIVE GEOMETRY

Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

PROJECTORS

Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882

System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856

Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413

PROPAGATION MODES

Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676

PROPAGATION VELOCITY

Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559

PROPELLENT GROUPS

Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746

Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123

PROPELLANT ACTUATED INSTRUMENTS

Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097

PROPELLANT ADDITIVES

Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

PROPELLANT BINDERS

Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710

Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

PROPELLANT CASTING

Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213

Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143

PROPELLANT CHEMISTRY

Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255

PROPELLANT COMBUSTION

Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381

Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507

PROPELLANT DECOMPOSITION

Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504

PROPELLANT GRAINS

Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534

PROPELLANT TANKS

Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910

Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997

Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233

Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275

Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948

Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779

Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651

Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569

Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155

Space vehicle system
[NASA-CASE-MSC-12561-1] c 18 N76-17185

Passive propellant system
[NASA-CASE-MFS-23642-2] c 20 N78-27176

Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

PROPELLANT TRANSFER

Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492

Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020

Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367

Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635

Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661

Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507

Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023

Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024

Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781

Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937

Passive propellant system
[NASA-CASE-MFS-23642-2] c 20 N78-27176

Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613

PROPELLANTS

Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161

Method of injecting fluid propellants into a rocket combustion chamber
[NASA-CASE-LEW-14846-2] c 20 N91-26200

PROPELLER BLADES

Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856

PROPELLER EFFICIENCY

Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828

PROPELLERS

Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733

Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194

High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

PROPORTIONAL CONTROL

Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954

PROPULSION SYSTEM CONFIGURATIONS

Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356

Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534

Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780

Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929

Apparatus for endoscopic examination --- analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725

Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310

Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368

Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828

Variable orifice flow regulator
[NASA-CASE-MSC-21549-1] c 34 N91-27504

Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035

PROPULSION SYSTEM PERFORMANCE

Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

PROPYLENE

Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

PROSTHETIC DEVICES

Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013

Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616

Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735

Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236

Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749

Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686

Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215

Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652

Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772

Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660

Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440

Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387

Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795

Automatic locking orthotic knee device
[NASA-CASE-MFS-28633-1] c 54 N92-17866

PROTECTION

Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465

Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310

Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083

Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216

PROTECTIVE CLOTHING

Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545

Biological isolation garment Patent
[NASA-CASE-MSC-12206-1] c 05 N71-17599

Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147

Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730

Protective suit having an audio transceiver Patent
[NASA-CASE-KSC-10164] c 07 N71-33108

Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679

Vitro-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446

Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113

PROTECTIVE COATINGS

Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895

Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979

Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311

Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409

Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617

Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897

Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014

Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046

Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075

Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077

Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679

Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897

Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739

Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183

Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555

Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903

Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032

Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581

Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037

Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532

Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283

Fused silicate coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229

High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217

Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170

Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096

Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290

Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260

Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-00526-1] c 27 N79-21190

Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100

Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209

Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188

Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238

Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441

Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144

Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795

Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177

Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324

Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944

Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855

Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555

Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005

Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283

Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458

Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039

Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569

Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482

Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489

Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412

Oxidation resistant coatings for titanium alloys and titanium alloy matrix composites
[NASA-CASE-LEW-15155-1] c 27 N91-26375

Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-2] c 27 N91-32229

Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091

Sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N92-16123

PROTECTORS

Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974

Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706

PROTEIN CRYSTAL GROWTH

Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250

Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N91-23933

PROTEINS

Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086

Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242

Crystal growth apparatus
[NASA-CASE-MFS-28182-1] c 76 N90-24169

Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239

Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MSC-21936-1] c 25 N92-19486

PROTOCOL (COMPUTERS)

Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428

System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944

PROTON FLUX DENSITY

Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

PROXIMITY

Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139

Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750

PSEUDOMONAS

Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239

PSEUDONOISE

Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577

Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175

Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118

Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582

Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

PULLEYS

Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878

Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834

PULLING

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

PULMONARY CIRCULATION

Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

PULMONARY FUNCTIONS

Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

PULSE AMPLITUDE

System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885

Analog to digital converter Patent
[NASA-CASE-XLA-00670] c 08 N71-12501

Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519

Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387

Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309

Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395

Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914

PULSE AMPLITUDE MODULATION

Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545

Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418

PULSE CODE MODULATION

Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266

Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392

System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042

Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405

Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154

Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208

Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149

Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132

Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c 35 N74-17885

Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809

Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810

Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486

Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371

Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249

Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239

Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

PULSE COMMUNICATION

Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961

Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239

Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747

Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523

PULSE DURATION

- Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
- Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
- Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
- Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
- Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
- Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711

PULSE DURATION MODULATION

- Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390
- Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
- Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
- Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
- Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
- Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249
- Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392

PULSE FREQUENCY MODULATION

- Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
- Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
- Noninterruptible digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
- Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696
- Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349

PULSE GENERATORS

- High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
- Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
- Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
- Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
- Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
- Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
- Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197
- Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
- Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515
- Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
- Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

PULSE HEATING

- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484

PULSE MODULATION

- Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

PULSE RATE

- Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
- Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479
- Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709

PULSED LASERS

- Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832
- Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654

Isotope separation using metallic vapor lasers

- [NASA-CASE-NPO-13550-1] c 36 N77-26477
- Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
- Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
- Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
- Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
- Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

PULSED RADIATION

- Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653
- Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914

PULSES

- High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119

PULTRUSION

- Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867
- Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334

PUMP SEALS

- Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
- Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474

PUMPS

- Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
- Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
- Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
- Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
- Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
- Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
- Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
- Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
- Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
- Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
- Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738
- Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
- Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
- Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-2] c 34 N88-23958
- Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
- Pulse thermal energy transport system
[NASA-CASE-LEW-15235-1] c 34 N92-10167

PUNCHED CARDS

- File card marker Patent
[NASA-CASE-XLA-02705] c 08 N71-15908
- Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

PUNCHES

- Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811

PURGING

- Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
- High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
- Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
- Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849

Purging means and method for Xenon arc lamps

- [NASA-CASE-NPO-11978] c 31 N78-17238

PURIFICATION

- High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044
- Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
- Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
- Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
- Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
- Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
- Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105
- Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174
- Purification system
[NASA-CASE-MSC-21584-1] c 25 N91-24362

PURITY

- Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
- Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
- Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111

PUSH-PULL AMPLIFIERS

- Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
- Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338
- Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404

PUSHING

- Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

PYLONS

- Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
- Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078

PYRAMIDS

- Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864

PYRIDINES

- Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
- Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
- Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
- Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845

PYROELECTRICITY

- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763

PYROGEN

- Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275

PYROLYSIS

- Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
- Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
- Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428
- Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737

PYROLYTIC GRAPHITE

- Multilayer film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
- Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
- Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

- Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
- Heat transfer device
[NASA-CASE-LEW-14162-2] c 24 N91-25201
- PYROLYTIC MATERIALS**
Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623
- PYROMETERS**
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
- Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943
- Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
- PYROTECHNICS**
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958
- Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
- Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390
- PYRRONES (TRADEMARK)**
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358

Q

- Q SWITCHED LASERS**
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
- Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
- Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
- Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816
- Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
- Q VALUES**
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
- QUADRANTS**
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512
- QUADRATIC PROGRAMMING**
Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
- QUADRATURES**
Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017
- Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341
- QUALITATIVE ANALYSIS**
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
- Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
- Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
- QUANTITATIVE ANALYSIS**
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
- Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
- Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
- Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
- Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
- Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
- Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
- QUANTUM THEORY**
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409
- QUANTUM WELLS**
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517

- Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489
- Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N92-22035
- QUARTZ**
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
- Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
- Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
- Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
- QUARTZ LAMPS**
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
- Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
- QUEUEING THEORY**
Neural-network dedicated processor for solving competitive assignment problems
[NASA-CASE-NPO-17781-1-CU] c 60 N92-17884
- QUINOXALINES**
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
- Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814

R

- RACKS (FRAMES)**
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
- Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
- Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
- Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751
- RADAR ANTENNAS**
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
- Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295
- Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
- Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
- RADAR ATTENUATION**
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
- RADAR BEACONS**
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
- RADAR BEAMS**
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
- RADAR CROSS SECTIONS**
Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
- Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317
- RADAR DATA**
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342
- Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
- Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546
- RADAR DETECTION**
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
- RADAR ECHOES**
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342
- RADAR EQUIPMENT**
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
- FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
- RADAR IMAGERY**
Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
- Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
- Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
- Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
- Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
- Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594
- Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
- Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546
- RADAR MEASUREMENT**
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
- RADAR RANGE**
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
- RADAR RECEIVERS**
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
- RADAR RECEPTION**
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
- RADAR REFLECTORS**
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
- Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
- RADAR TARGETS**
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
- Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
- RADAR TRACKING**
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
- Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
- Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483
- Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
- Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
- RADAR TRANSMITTERS**
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119
- RADIAL DISTRIBUTION**
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
- RADIAL FLOW**
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
- Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
- RADIANCE**
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
- RADIANT COOLING**
Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319

Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875

Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260

Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903

Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424

RADIANT FLUX DENSITY
High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152

Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287

RADIANT HEATING
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312

High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545

Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812

Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858

Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554

High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399

RADIATION
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409

Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447

Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731

Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709

RADIATION ABSORPTION
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502

Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469

Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597

Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627

RADIATION COUNTERS
Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322

Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297

Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602

Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991

Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560

Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430

Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328

Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317

Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949

Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293

Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334

Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292

RADIATION DAMAGE
Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654

Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062

Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682

Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

RADIATION DETECTORS
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348

Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355

Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880

Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401

Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141

Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462

Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317

Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091

High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088

Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c 35 N75-23910

Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c 35 N76-29551

Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449

X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898

Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597

Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931

Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127

Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713

X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835

RADIATION DISTRIBUTION
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675

Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627

RADIATION DOSAGE
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430

Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332

Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627

RADIATION EFFECTS
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892

Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515

Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627

RADIATION HARDENING
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329

Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438

RADIATION HAZARDS
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

RADIATION MEASUREMENT
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447

RADIATION MEASURING INSTRUMENTS
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432

Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181

Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946

Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901

Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447

Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235

Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488

Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392

Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949

Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

RADIATION MEDICINE
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

RADIATION PROTECTION
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682

Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036

Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

RADIATION SHIELDING
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422

Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482

Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600

Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781

Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893

Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066

Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515

RADIATION SOURCES
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985

Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595

Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462

High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913

Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318

Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594

Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N90-27595

Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096

Purification system
[NASA-CASE-MSC-21584-1] c 25 N91-24362

Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388

SUBJECT INDEX

RADIATION SPECTRA

Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041

RADIATION THERAPY

Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

RADIATION TOLERANCE

Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

RADIATIVE HEAT TRANSFER

Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

RADIATORS

Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

RADIO ANTENNAS

Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614
Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

RADIO ASTRONOMY

Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723

RADIO BEACONS

RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N89-14374

RADIO COMMUNICATION

System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511

RADIO CONTROL

RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863

RADIO EQUIPMENT

System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296

RADIO FREQUENCIES

Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Signal path series step biased multidevice high efficiency amplifier Patent

[NASA-CASE-GSC-10668-1] c 07 N71-28430
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492
Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-LAR-13705-1] c 33 N82-33996
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
Precision tunable resonant microwave cavity
[NASA-CASE-LAR-13935-1] c 33 N87-21234
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871
Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N91-28321

RADIO FREQUENCY DISCHARGE

Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245

RADIO FREQUENCY HEATING

Gyrottron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

RADIO FREQUENCY INTERFERENCE

Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568

RADIO FREQUENCY SHIELDING

Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083

RADIO INTERFEROMETERS

System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603

RADIO PROBING

Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

RADIO RECEIVERS

Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321

RADIO RELAY SYSTEMS

Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265

RADIO SIGNALS

Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309

Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723

RADIO SOURCES (ASTRONOMY)

Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214

RADIO STARS

Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

RADIO TELEMETRY

Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001

RADIO TELESCOPES

Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043

RADIO TRANSMITTERS

Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511

RADIO WAVES

Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701

RADIOACTIVE ISOTOPES

Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292

RADIOBIOLOGY

Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627

RADIOGRAPHY

Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756

RADIOLOGY

Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

RADIOLYSIS

Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458

RADIOMETERS

Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c 34 N74-27861
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N91-23889

RADIOSONDES

Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691

RAILS

RAILS

Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N91-26543

RAIN

Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
Environmental fog/rain visual display system for aircraft
simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212

RAMJET ENGINES

Telescoping-spike supersonic inlet for aircraft engines
Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

RAMPS (STRUCTURES)

Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

RANDOM ACCESS MEMORY

Memory-based frame synchronizer --- for digital
communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519
Integrated, non-volatile, high-speed analog random
access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438

RANDOM LOADS

Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003

RANDOM NOISE

Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
Digital servo control of random sound test excitation
--- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515
Pseudo noise code and data transmission method and
apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Low phase noise oscillator using two parallel connected
amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

RANDOM NUMBERS

Long period pseudo random number sequence
generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

RANGE (EXTREMES)

Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339

RANGE AND RANGE RATE TRACKING

Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958

RANGE FINDERS

Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
Ranging system which compares an object reflected
component of a light beam to a reference component of
the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266

RANGEFINDING

Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Ranging system Patent
[NASA-CASE-NPO-10066] c 09 N71-18598
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Code regenerative clean-up loop transponder for a
mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Orbital and entry tracking accessory for globes --- to
provide range requirements for reentry vehicles to any
landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

RARE EARTH COMPOUNDS

Didymium hydrate additive to nickel hydroxide electrodes
Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
High modulus rare earth and beryllium containing silicate
glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

RARE GASES

Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

RAREFIED GASES

Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184

RASTER SCANNING

Rotating-unbalanced-mass devices and methods for
scanning balloon-borne-experiments, free-flying
spacecraft, and space shuttle/space station attached
experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304

RATES (PER TIME)

Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
Ranging system which compares an object reflected
component of a light beam to a reference component of
the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

RAY TRACING

Feedback controlled optics with wavefront
compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924

RC CIRCUITS

Pulse counting circuit which simultaneously indicates the
occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
RC rate generator for slow speed measurement
Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
Transient augmentation circuit for pulse amplifiers
Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Multiloop RC active filter apparatus having low parameter
sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
Temperature control system with a pulse width
modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520

REACTION BONDING

Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538

REACTION CONTROL

Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160

REACTION KINETICS

Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

REACTION PRODUCTS

Process for crosslinking and extending conjugated
diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

REACTION TIME

Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

REACTION WHEELS

Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670

REACTIVITY

Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597

REACTOR CORES

Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228

REACTOR DESIGN

Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920
Thermal reactor --- liquid silicon production from silane
gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501

REACTOR MATERIALS

Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201

REACTOR PHYSICS

Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920

READ-ONLY MEMORY DEVICES

Method and apparatus for operating on compacted PCM
voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

READERS

Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

READOUT

Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Plural position switch status and operativeness checker
Patent
[NASA-CASE-XLA-08799] c 10 N71-27272
Magneto-optic detection system with noise
cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421

REAL TIME OPERATION

Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Real time, large volume, moving scene holographic
camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Real time reflectometer --- measurement of specular
reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
Contour detector and data acquisition system for the
left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
Azimuth correlator for real-time synthetic aperture radar
image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
Real-time multiple-look synthetic aperture radar
processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
Pipelined digital SAR azimuth correlator using hybrid
FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
Real-time garbage collection for list processing
[NASA-CASE-MSC-20964-1] c 60 N87-14863
Real-time optical multiple object recognition and tracking
system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301
Real-time image difference detection using a polarization
rotation spatial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078
Airplane takeoff and landing performance monitoring
system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096
Special purpose parallel computer architecture for
real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Modified fast frequency acquisition via adaptive least
squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341
Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385
Real-time data, compression of broadcast video
signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
Real time pre-detection dynamic range compression
[NASA-CASE-NPO-18098-1-CU] c 74 N91-23890
Synchronized computational architecture for generalized
bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
Method and apparatus for frequency spectrum
analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-10125
Real-time data compression of broadcast video
signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128
Method for providing real-time control of a gaseous
propellant rocket propulsion system
[NASA-CASE-MSC-21542-1] c 20 N92-15122
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-17675
Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864

REATTACHED FLOW

- Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
- Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596

REBREATHING

- Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799

RECEIVERS

- System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
- Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
- Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
- Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
- Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
- Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
- Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
- Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
- Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
- High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N86-27270
- Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
- Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N91-23617

RECIPROCATING

- Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
- Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904

RECOMBINATION REACTIONS

- Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874
- Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154

RECONSTRUCTION

- Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154

RECORDING HEADS

- Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392

RECORDING INSTRUMENTS

- Automatic force measuring system Patent
[NASA-CASE-XLA-02605] c 14 N71-10773
- Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
- Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
- Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
- Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
- Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877

RECOVERABILITY

- Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135

RECOVERABLE LAUNCH VEHICLES

- Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
- Orbiter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161

RECOVERABLE SPACECRAFT

- Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675

RECOVERY PARACHUTES

- Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
- Vortex breach high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
- Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139

RECTANGULAR PANELS

- Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
- Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214

RECTIFIERS

- Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
- Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
- Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
- SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171
- A dc to ac dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
- Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

RECTUM

- Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

REDOX CELLS

- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
- Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344
- Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
- Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

REDUCED GRAVITY

- Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
- Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
- Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
- Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
- Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
- Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
- Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
- Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
- Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
- Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793
- Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
- Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
- Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
- Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511
- Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
- Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968

REDUCTION (CHEMISTRY)

- Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
- Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
- Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
- Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

REDUNDANCY

- Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

REDUNDANT COMPONENTS

- Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
- Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
- Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
- Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

REELS

- Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
- Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

REENTRY COMMUNICATION

- Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
- Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
- Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

REENTRY SHIELDING

- Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
- Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
- Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947
- Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
- Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-NPO-11169-1] c 24 N79-24062
- Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
- Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
- Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628

REENTRY TRAJECTORIES

- Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631

REENTRY VEHICLES

- Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
- Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
- Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
- Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
- Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
- Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
- Vortex breach high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
- Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
- Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584

REFERENCE SYSTEMS

- Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
- Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

REFINING

- Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946

REFLECTANCE

- Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
- Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
- Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24888
- Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
- Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044
- Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

- Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280
- Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N91-15519
- REFLECTED WAVES**
- Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
- Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
- Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
- Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914
- REFLECTING TELESCOPES**
- Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
- Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
- REFLECTION**
- Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532
- Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
- Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
- REFLECTOMETERS**
- Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample
Patent
[NASA-CASE-XGS-05291] c 23 N71-16341
- Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
- Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
- Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687
- REFLECTOR ANTENNAS**
- Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
- REFLECTORS**
- Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
- Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
- Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
- Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
- Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
- Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
- Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
- Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
- Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
- Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
- Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125
- Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
- Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
- Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
- Reflection oscillators employing series resonant crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635
- New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1CU] c 24 N90-26880
- Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1CU] c 74 N91-32923
- REFRACTION**
- Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1CU] c 74 N91-26918

REFRACTIVITY

- The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
- Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
- Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
- Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874
- Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
- Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899

REFRACTORY COATINGS

- Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
- Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
- Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
- Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266

REFRACTORY MATERIALS

- High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
- Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
- Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
- High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
- High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
- High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
- Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
- Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
- Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
- Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
- Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
- Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
- Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
- High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
- High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
- Lightweight ceramic insulation and method
[NASA-CASE-MSC-20782-1] c 27 N90-23566
- Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N91-23491
- Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726
- REFRACTORY METALS**
- Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
- Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
- Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046

- Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
- Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
- Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
- Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
- Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
- Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
- Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
- Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
- One step HIP canning of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493
- High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489
- REFRIGERATING**
- Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
- Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
- REFRIGERATING MACHINERY**
- Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
- Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
- Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
- Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
- Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
- Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
- Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
- Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223
- REFRIGERATORS**
- Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
- Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284
- Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
- Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
- Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
- Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
- Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
- Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785
- Joule Thomson refrigerator
[NASA-CASE-NPO-17143-1-CU] c 31 N89-14351
- Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
- Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203
- Three-stage sorption type cryogenic refrigeration system and method employing heat regeneration
[NASA-CASE-NPO-18366-1-CU] c 31 N92-17674
- REFUELING**
- Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
- System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
- REGENERATION (ENGINEERING)**
- Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
- Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030

- Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
- Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
- Regenerative Cu/La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073
- REGENERATION (PHYSIOLOGY)**
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
- Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803
- REGENERATIVE COOLING**
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
- Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
- Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
- Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
- Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
- Three-stage sorption type cryogenic refrigeration system and method employing heat regeneration
[NASA-CASE-NPO-18366-1-CU] c 31 N92-17674
- REGENERATIVE FUEL CELLS**
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
- REGENERATORS**
Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
- Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
- Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
- REGISTERS (COMPUTERS)**
Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110
- Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800
- REGULATORS**
Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N91-28582
- REINFORCED PLASTICS**
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
- Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
- REINFORCEMENT (STRUCTURES)**
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
- Thermally activated retainer means
[NASA-CASE-MSC-21793-1] c 16 N91-28186
- REINFORCEMENT RINGS**
Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977
- REINFORCING FIBERS**
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
- Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
- Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894
- Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
- Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
- Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
- Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
- High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HON-10595-1] c 27 N82-29455
- Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
- Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
- Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
- Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
- Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334
- Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
[NASA-CASE-LAR-13562-2] c 24 N91-25199
- RELAXATION OSCILLATORS**
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
- RELAY SATELLITES**
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
- Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448
- RELEASING**
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
- Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
- Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
- Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
- Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
- Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
- Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
- Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154
- Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390
- Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 37 N91-24577
- Quick action clamp
[NASA-CASE-LEW-14887-1] c 37 N91-27561
- Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 31 N92-16161
- RELIABILITY ANALYSIS**
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
- Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679
- RELIABILITY ENGINEERING**
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
- Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
- Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
- Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
- Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
- Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
- Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
- Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
- Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
- RELIEF MAPS**
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
- RELIEF VALVES**
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
- Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
- Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
- Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
- Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
- REMOTE CONTROL**
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
- Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
- Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
- Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
- Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
- Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
- Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
- Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
- Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
- Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
- Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
- Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
- Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
- Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
- Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
- Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
- Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
- Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
- Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
- Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
- Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738
- Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
- Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
- Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
- Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
- Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866
- Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078
- A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510
- End effector with astronaut foot restraint
[NASA-CASE-MSC-21721-1] c 54 N92-16559
- Closed-loop motor control using high-speed fiber optics
[NASA-CASE-MSC-21806-1] c 74 N92-17863
- REMOTE HANDLING**
Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
- Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123
- Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
- Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
- Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
- Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
- Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
- Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
- REMOTE MANIPULATOR SYSTEM**
Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
- Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
- Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
- Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N91-23490

Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200

Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885

End effector with astronaut foot restraint
[NASA-CASE-MSC-21721-1] c 54 N92-16559

REMOTE SENSING

Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962

Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512

Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N92-21710

REMOTE SENSORS

Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340

Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090

Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864

Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326

Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437

Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160

Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870

Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521

Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524

Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493

Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753

Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367

Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529

Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384

Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498

Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639

REMOTELY PILOTED VEHICLES

Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

REMOVAL

Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901

Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N91-28727

REPEATERS

Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

REPLACING

Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182

RESCUE OPERATIONS

Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351

Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748

Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267

Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985

Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113

RESEARCH AIRCRAFT

Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

RESEARCH AND DEVELOPMENT

Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330

RESEARCH FACILITIES

Nano-G research laboratory for a spacecraft
[NASA-CASE-GSC-13197-1] c 18 N91-27201

RESEARCH VEHICLES

Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966

Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895

RESERVOIRS

Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684

Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586

RESIDUAL STRESS

Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091

Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120

Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527

RESILIENCE

Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161

RESIN BONDING

Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404

Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600

Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163

RESIN MATRIX COMPOSITES

Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272

Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073

Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112

Semiinterpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334

Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539

Ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N91-15402

Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N91-15403

Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066

Low toxicity high temperature PMR polyimides
[NASA-CASE-LAR-14639-1] c 27 N92-11199

Semi-interpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N92-21711

RESINS

Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739

Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489

Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532

Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150

Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854

Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564

Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042

A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881

Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559

Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570

Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562

Ethynyl terminated imidothioethers and resins therefrom
[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307

RESISTANCE

Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120

Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265

Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933

RESISTANCE HEATING

Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175

Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-1.71-NPO-15494-2] c 35 N85-34373

RESISTORS

High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814

Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473

Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

RESOLUTION

Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125

Spectroscopy equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206

Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753

Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676

Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318

RESOLVERS

Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705

Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055

RESONANCE

Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400

Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350

Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

RESONANT FREQUENCIES

Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021

Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397

Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228

CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512

Microbalance --- for measuring particle mass
[NASA-CASE-MS-11242] c 35 N78-17358

Method and apparatus for shaping and enhancing
acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767

Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887

Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933

Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241

Reflection oscillators employing series resonant
crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635

Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807

Method of recertifying a loaded bearing member
[NASA-CASE-LAR-14168-1] c 39 N92-12302

RESONANT VIBRATION

Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N91-28321

RESONATORS

High-Q bandpass resonators utilizing bandstop
resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195

Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596

Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817

Self-collimated unstable resonator semiconductor
laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899

RESOURCE ALLOCATION

Dynamic resource allocation scheme for distributed
heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693

RESPIRATION

Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

RESPIRATORS

Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329

RESPIRATORY RATE

Gas low pressure low flow rate metering system
Patent
[NASA-CASE-FRC-10022] c 12 N71-26546

Respiratory analysis system and method
[NASA-CASE-MS-13436-1] c 05 N73-32015

Metabolic analyzer --- for measuring metabolic rate and
breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728

RESPIROMETERS

Metabolic analyzer --- for measuring metabolic rate and
breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728

RESPONSE TIME (COMPUTERS)

Dynamic resource allocation scheme for distributed
heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693

RESPONSES

Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176

RESTARTABLE ROCKET ENGINES

Zero gravity starting means for liquid propellant motors
Patent
[NASA-CASE-XNP-01390] c 28 N70-41275

Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992

RESUSCITATION

Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

RETAINING

Floating nut retention system
[NASA-CASE-MS-16938-1] c 37 N80-23653

Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

RETARDERS (DEVICES)

Thrust reverser for a long duct fan engine --- for turbofan
engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293

RETARDING

Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032

RETICLES

Optical tracker having overlapping reticles on parallel
axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100

Star tracking reticles and process for the production
thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630

Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320

Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008

Star scanner --- with a reticle with a pair of slits having
differing separation
[NASA-CASE-GSC-11569-1] c 89 N74-30886

Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591

RETINA

Portable dynamic fundus instrument
[NASA-CASE-MS-21675-1] c 52 N91-13865

Optical joint correlator for real-time image tracking and
retinal surgery
[NASA-CASE-MS-21509-1] c 74 N91-25840

RETINAL IMAGES

Retinally stabilized differential resolution television
display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

RETRACTABLE EQUIPMENT

Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329

Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701

Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474

Antenna deployment mechanism for use with a
spacecraft --- extensible and retractable telescopic
antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183

CAM controlled retractable door latch
[NASA-CASE-MS-20304-1] c 37 N82-31690

Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

RETROFIRING

Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499

Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812

RETROREFLECTION

Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662

Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395

Method and apparatus for Doppler frequency modulation
of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510

Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512

Multiperiod-grating surface-emitting lasers
[NASA-CASE-NPO-17763-1-CU] c 36 N92-17862

RETROREFLECTORS

Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963

Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

Equal path, phase shifting, sample point interferometer
for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488

Equal path, phase shifting, sample point interferometer
for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N92-22034

RETROCKET ENGINES

Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645

RETURN TO EARTH SPACE FLIGHT

Assured crew return vehicle
[NASA-CASE-MS-21536-1] c 18 N91-13483

Assured crew return vehicle
[NASA-CASE-MS-21536-1] c 18 N92-21999

REUSABLE HEAT SHIELDING

High temperature glass thermal control structure and
coating --- for application to spacecraft reusable heat
shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448

Thermally activated retainer means
[NASA-CASE-MS-21793-1] c 16 N91-28186

REUSABLE ROCKET ENGINES

Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584

REUSABLE SPACECRAFT

Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588

Space shuttle vehicle and system
[NASA-CASE-MS-12433] c 31 N73-14854

Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310

REUSE

Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376

Reusable captive blind fastener
[NASA-CASE-MS-18742-1] c 37 N82-26673

Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741

Reusable high-temperature heat pipes and heat pipe
panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323

REVERSE OSMOSIS

Reverse osmosis membrane of high urea rejection
properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452

Method for the preparation of thin-skinned asymmetric
reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361

REVERSED FLOW

Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412

Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724

Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706

Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059

Reversal electron attachment ionizer for detection of
trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795

REYNOLDS NUMBER

Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183

REYNOLDS STRESS

System for measuring Reynolds in a turbulently flowing
fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517

RHENIUM

Thermocouples of tantalum and rhenium alloys for more
stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

RHEOMETERS

Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357

RHOMBOIDS

Rhomboid prism pair for rotating the plane of parallel
light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978

RIBBONS

Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411

Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408

Twisted multilaminate superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752

Method of controlling defect orientation in silicon crystal
ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920

Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314

Growth of silicon carbide crystals on a seed while pulling
silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798

Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431

Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474

Means for growing ribbon crystals without subjecting the
crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244

Method of growing a ribbon crystal particularly suited
for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245

Apparatus for use in the production of ribbon-shaped
crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389

Method of increasing minority carrier lifetime in silicon
web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N91-15898

Permanent wire splicing by an explosive joining
process
[NASA-CASE-LAR-13825-1] c 31 N92-16162

Device for mechanically stabilizing web ribbon buttons
during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499

RIBPLETS

Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071

Polymer/riblet combination for hydrodynamic skin
friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558

RIBOFLAVIN

Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149

RIBS (SUPPORTS)

SUBJECT INDEX

RIBS (SUPPORTS)

Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981

RICE
Modification of the physical properties of freeze-dried rice
[NASA-CASE-MS-13540-1] c 05 N72-33096

RIDING QUALITY
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

RIGID ROTORS
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029

RIGID STRUCTURES
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614
Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N91-15544
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184

RIGID WINGS
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863

RIMS
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

RING CURRENTS
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463

RING STRUCTURES
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416

RING WINGS
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315

RIPPLES
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225

RIVETS
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960

ROBOT ARMS
Spiral lead platen robotic end effector
[NASA-CASE-LAR-13855-1] c 37 N91-14615
Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616
Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MS-21476-1] c 37 N91-21542
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544
Driven shielding capacitive proximity sensor
[NASA-CASE-GSC-13377-1] c 63 N91-28785
Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-31656
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N91-32509
A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510

High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N92-17895

ROBOT CONTROL
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724
Spiral lead platen robotic end effector
[NASA-CASE-LAR-13855-1] c 37 N91-14615
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MS-21476-1] c 37 N91-21542
Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N91-23783
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528
High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N92-17895
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036

ROBOT DYNAMICS
Spiral lead platen robotic end effector
[NASA-CASE-LAR-13855-1] c 37 N91-14615
Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616
Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544
Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-31656

ROBOT SENSORS
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MS-21476-1] c 37 N91-21542

ROBOTICS
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868
Passively activated prehensile digit for a robotic end effector
[NASA-CASE-NPO-16766-1-CU] c 37 N89-13785
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
Gripping device
[NASA-CASE-MS-21365-1] c 37 N90-20408
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387
Power saw
[NASA-CASE-MS-21469-1] c 37 N91-31655
A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510
Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864
High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N92-17895

ROBOTS
Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724
Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544
Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N91-23783
Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N91-32509
A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510
High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N92-17895

ROCKET ENGINE CASES
Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658

Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143

ROCKET ENGINE CONTROL
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124

ROCKET ENGINE DESIGN
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331
Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275
Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298

ROCKET ENGINES
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Magnetoplasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25899-1] c 20 N87-14420
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481
Emergency egress fixed rocket package
[NASA-CASE-MS-21332-1] c 03 N91-15142

Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N92-10054

ROCKET EXHAUST
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279

ROCKET FIRING
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663

ROCKET FLIGHT
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691

ROCKET LAUNCHING
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043

ROCKET LININGS
Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573

ROCKET NOZZLES
Gimballed, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
Multislit film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279
Nozzle fabrication technique
[NASA-CASE-MSC-21299-2] c 37 N91-32508
Thrustor sealing system and apparatus
[NASA-CASE-MSC-21898-1] c 37 N92-17872

ROCKET OXIDIZERS
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209

ROCKET PROPELLANTS
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809

ROCKET TEST FACILITIES
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094

ROCKET THRUST
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Electrostatic thrustor with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784

Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382

ROCKET VEHICLES
Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

ROCKET-BORNE INSTRUMENTS
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432

ROCKETS
Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173

ROCKS
Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706

RODS
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N91-23493

ROLL
Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379

ROLLER BEARINGS
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c 15 N73-30458
Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309

ROLLERS
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N91-17401
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540
Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N91-28579
Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N91-32511
Magnetostriuctive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N92-15331
Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N92-21728

ROLLING
Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N91-13734

ROLLING CONTACT LOADS
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189

ROLLING MOMENTS
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856

ROOM TEMPERATURE
Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895

ROTARY GYROSCOPES
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259

ROTARY STABILITY
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

ROTARY WING AIRCRAFT
Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

ROTARY WINGS
Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

ROTATING BODIES
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222

ROTATING CYLINDERS
Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733
Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037

ROTATING DISKS
Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101

Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508

ROTATING ELECTRICAL MACHINES

Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364

ROTATING ENVIRONMENTS

Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776

ROTATING GENERATORS

Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828

ROTATING MIRRORS

Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

ROTATING SHAFTS

Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459

ROTATION

Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045

Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422
Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793
Acoustic controlled rotation and orientation
[NASA-CASE-NPO-16995-1-CU] c 71 N90-12289
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769
Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304
Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609
Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184
Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289
Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N91-32511
Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795
Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-32922

ROTOR AERODYNAMICS

Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

ROTOR BLADES

Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
ROTOR BLADES (TURBOMACHINERY)
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732

ROTOR LIFT

Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

ROTOR SPEED

Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904

ROTORCRAFT AIRCRAFT

Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

ROTORS

Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695

Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
Improved superconducting bearings
[NASA-CASE-GSC-13346-1] c 37 N91-28578

RUBBER

Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
Method and apparatus for cleaning rubber deposits from airport runways and roadways
[NASA-CASE-LAR-14483-1] c 31 N91-28455

RUBBER COATINGS

Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562

RUBY

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

RUBY LASERS

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

RUNWAY ALIGNMENT

Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619

RUNWAY CONDITIONS

Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

RUNWAY LIGHTS

Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

RUNWAYS

Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120

RUPTURING

Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540

S

SABOT PROJECTILES

Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

SAFETY

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745

SAFETY DEVICES

Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119

- Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
- Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
- Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915
- Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
- Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
- Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
- Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
- Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982
- Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863
- SAFETY FACTORS**
- Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
- Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113
- SAHA EQUATIONS**
- Cosmic dust analyzer
[NASA-CASE-MS-13802-2] c 35 N76-15431
- SALT BATHS**
- Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311
- SAMARIUM**
- Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
- SAMPLERS**
- Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
- Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
- SAMPLES**
- Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
- Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
- SAMPLING**
- Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
- Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
- Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
- Digital to analog conversion apparatus
[NASA-CASE-MS-12458-1] c 08 N73-32081
- Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
- Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
- Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
- Automatic biowaste sampling
[NASA-CASE-MS-14640-1] c 54 N76-14804
- Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
- Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MS-16841-1] c 34 N79-24285
- Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
- Moisture content and gas sampling device
[NASA-CASE-MS-18866-1] c 35 N85-29213
- Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
- Solid sorbent air sampler
[NASA-CASE-MS-20653-1] c 35 N86-26595
- Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684
- High-pressure promoted combustion chamber
[NASA-CASE-MS-21470-1] c 09 N91-21157
- Biofilm monitoring coupon system and method of use
[NASA-CASE-MS-21585-1] c 51 N91-31755
- High velocity gas particulate sampling system
[NASA-CASE-MS-21729-1] c 34 N92-16241
- Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712
- SANDWICH STRUCTURES**
- Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
- Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
- Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
- Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
- Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
- Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
- Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- Multilayer thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
- New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880
- SAPPHIRE**
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
- SATELLITE ANTENNAS**
- Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
- Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
- Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
- Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
- Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
- SATELLITE ATTITUDE CONTROL**
- Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
- Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
- Satellite despinn device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
- Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
- Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
- Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624
- Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
- Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
- Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
- Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
- SATELLITE COMMUNICATION**
- Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
- Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523
- SATELLITE CONTROL**
- Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
- Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380
- SATELLITE DESIGN**
- Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
- SATELLITE INSTRUMENTS**
- Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
- SATELLITE NETWORKS**
- Satellite interlace synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
- SATELLITE OBSERVATION**
- Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
- SATELLITE ORBITS**
- Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
- SATELLITE ORIENTATION**
- Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
- Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676
- Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
- Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172
- SATELLITE PERTURBATION**
- Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
- SATELLITE POWER TRANSMISSION**
- Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
- SATELLITE ROTATION**
- Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
- Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
- Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
- Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
- SATELLITE TELEVISION**
- Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374
- SATELLITE TRACKING**
- Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
- Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
- Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
- SATELLITE TRANSMISSION**
- Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
- SATELLITE-BORNE INSTRUMENTS**
- Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
- SATELLITE-BORNE PHOTOGRAPHY**
- Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
- Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
- SATURABLE REACTORS**
- Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
- Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
- SATURATION**
- Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
- SAWS**
- Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
- Power saw
[NASA-CASE-MS-21469-1] c 37 N91-31655
- SAWTOOTH WAVEFORMS**
- Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
- SCANNERS**
- Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460

- Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
- Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
- Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
- Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
- Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
- Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
- Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
- Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
- Electronically scanned pressure sensor module with in situ calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
- Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
- Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
- Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
- Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
- Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
- Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
- Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
- Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
- Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769
- SCANNING**
- Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
- Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
- Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250
- Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
- System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896
- SCATTERING CROSS SECTIONS**
- Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
- Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317
- SCENE ANALYSIS**
- Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
- SCHLIEREN PHOTOGRAPHY**
- System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
- Schlieren system for visualizing the flow within a pipe of circular cross-section
[NASA-CASE-LAR-13944-1] c 35 N92-11336
- SCHMIDT CAMERAS**
- Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635
- SCHMIDT TELESCOPES**
- Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
- SCHOOLS**
- Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
- SCHOTTKY DIODES**
- High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
- Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
- Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
- Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
- Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
- Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
- Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
- GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
- Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N91-21434
- Formation of self-aligned guard rings for monolithic Schottky-barrier diode arrays
[NASA-CASE-NPO-17734-1-CU] c 33 N92-10146
- Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197
- SCIENTIFIC SATELLITES**
- Nano-G research laboratory for a spacecraft
[NASA-CASE-GSC-13197-1] c 18 N91-27201
- SCOOPS**
- Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
- SCORING**
- Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
- SCRAMBLING (COMMUNICATION)**
- Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
- SCREWS**
- Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635
- Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
- Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
- Three point lead screw positioning apparatus
[NASA-CASE-LEW-15216-1] c 37 N92-17678
- SCRUBBERS**
- High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
- Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174
- SEA ICE**
- A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520
- SEA STATES**
- Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667
- SEA SURFACE TEMPERATURE**
- Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
- SEALERS**
- Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
- Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
- Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
- Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
- Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268
- High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- SEALING**
- Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
- Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
- Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
- Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
- Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
- Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451
- Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
- Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689
- High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
- Caniliver clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
- Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732
- O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N91-21175
- Method of applying a thermal barrier coating system to a substrate
[NASA-CASE-LEW-15020-2] c 24 N91-25202
- Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542
- Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091
- Thruster sealing system and apparatus
[NASA-CASE-MSC-21898-1] c 37 N92-17872
- SEALS (STOPPERS)**
- Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
- Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376
- Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
- Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577
- Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
- Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
- Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
- Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
- Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
- High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631
- Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
- Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
- Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
- Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
- Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
- Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469
- Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
- Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
- Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
- Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
- Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442
- Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
- Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
- Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
- Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
- Method of fabricating an abrasible gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
- Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
- Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
- Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978

Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786

High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751

Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608

High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560

Thruster sealing system and apparatus
[NASA-CASE-MSC-21898-1] c 37 N92-17872

High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043

SEAMS (JOINTS)

Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164

Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623

Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301

SEARCHING

Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N92-17860

SEAT BELTS

Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915

SEATS

Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228

Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394

Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982

Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733

Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747

SECONDARY EMISSION

Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

SECONDARY FLOW

Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072

SECTORS

Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921

SECURITY

Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559

Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

SEDIMENTS

Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N91-13860

SEEDS

Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499

SEGMENTS

Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597

Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488

Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N91-32923

Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N92-22034

SEISMIC WAVES

Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794

Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679

Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555

SEISMOGRAPHS

Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

SELECTORS

Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777

Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862

SELF ADAPTIVE CONTROL SYSTEMS

Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785

SELF ALIGNMENT

Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238

Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423

Formation of self-aligned guard rings for monolithic Schottky-barrier diode arrays
[NASA-CASE-NPO-17734-1-CU] c 33 N92-10146

SELF ERECTING DEVICES

Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135

Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296

Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676

Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579

Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102

Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658

Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373

SELF FOCUSING

Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

SELF LUBRICATING MATERIALS

Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710

Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984

Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482

SELF LUBRICATION

Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916

Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585

SELF MANEUVERING UNITS

Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336

Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

SELF PROPAGATION

Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291

SELF SEALING

Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845

Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442

Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573

SELF TESTS

Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633

Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518

SEMICONDUCTOR DEVICES

Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926

Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422

A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148

Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819

Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560

Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607

Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354

Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721

Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407

Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798

Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892

Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899

Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672

Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126

Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992

Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820

Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199

Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447

Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679

Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446

Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469

Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049

Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390

Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950

Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650

Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280

Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763

Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765

Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113

Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492

Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922

Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894

Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518

Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-1] c 76 N91-26966

Method for anisotropic etching in the manufacture of semiconductor devices
[NASA-CASE-MSC-21631-1] c 75 N91-32947

SEMICONDUCTOR DIODES

Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066

Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551

Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528

SEMICONDUCTOR JUNCTIONS

Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027

Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334

Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532

High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764

Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530

Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269

Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614

SEMICONDUCTOR LASERS

Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588

Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871

Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489

Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899

SEMICONDUCTORS (MATERIALS)

Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460

System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MS-C-12259-1] c 07 N70-12616

High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042

Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818

Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043

Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292

Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445

Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251

Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192

Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468

Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910

Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286

Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923

Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760

Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882

Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286

Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713

Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879

Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545

Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120

Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489

Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899

SENSITIVITY

Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256

Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836

SENSITOMETRY

Condition sensor system and method
[NASA-CASE-MS-C-14805-2] c 54 N78-32720

SENSORS

Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260

Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MS-C-14180-1] c 52 N76-14757

Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

SENSORY PERCEPTION

Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013

SEPARATED FLOW

Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294

Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016

Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742

Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364

Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534

Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168

Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596

SEPARATION

Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N91-28321

SEPARATORS

Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465

Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202

Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062

Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968

Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079

Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427

Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023

Air removal device
[NASA-CASE-XLA-08914] c 15 N73-12492

Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608

Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282

Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456

Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606

Low gravity phase separator
[NASA-CASE-MS-C-14773-1] c 35 N78-12390

Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104

Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530

Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313

Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345

In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481

Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000

Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615

Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268

Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641

Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642

Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643

Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644

Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645

Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126

Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176

Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236

Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024

SEQUENCING

Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432

Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418

Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165

MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210

Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175

Mechanical sequencer
[NASA-CASE-MS-C-19536-1] c 37 N77-22482

Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634

Generation of animation sequences of three dimensional models
[NASA-CASE-MS-C-21379-1-SB] c 61 N90-27340

SEQUENTIAL ANALYSIS

Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209

Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144

SEQUENTIAL COMPUTERS

Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

SEQUENTIAL CONTROL

Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503

Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505

Sequencing device utilizing planetary gear set
[NASA-CASE-MS-C-19514-1] c 37 N79-20377

Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884

Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N92-17895

SERUMS

Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

SERVICE LIFE

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248

Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261

SERVOAMPLIFIERS

Pneumatic amplifier Patent
[NASA-CASE-MS-C-12121-1] c 15 N71-27147

SERVOCONTROL

Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460

Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954

Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479

Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360

Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754

- Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
- Digital servo control of random sound test excitation
--- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
- Phase-locked servo system --- for synchronizing the
rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
- Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
- Autonomous navigation system --- gyroscopic pendulum
for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
- System and method for moving a probe to follow
movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
- Control system for an induction motor with energy
recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
- Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
- SERVO MECHANISMS**
- Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
- Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
- A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
- Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456
- Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
- Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
- Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426
- Apparatus for providing a servo drive signal in a
high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
- Automated syringe sampler --- remote sampling of air
and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
- Electrical servo actuator bracket --- fuel control valves
on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
- Hydraulic actuator mechanism to control aircraft spoiler
movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
- Servomechanism for Doppler shift compensation in
optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
- Closed-loop motor control using high-speed fiber
optics
[NASA-CASE-MSC-21806-1] c 74 N92-17863
- SERVOMOTORS**
- Automatic closed circuit television arc guidance control
Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
- Transistor servo system including a unique differential
amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
- Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
- Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
- Velocity servo for continuous scan Fourier interference
spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
- Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
- SEWAGE TREATMENT**
- Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
- Method for treating wastewater using microorganisms
and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
- SHADES**
- Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
- SHAFTS (MACHINE ELEMENTS)**
- Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
- Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
- Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
- Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
- Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
- Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
- Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
- High speed hybrid bearing comprising a fluid bearing
and a rolling bearing connected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
- Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
- Hole cutter --- drills bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
- Twin-capacitive shaft angle encoder with analog output
signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
- Counter pumping debris excluder and separator --- gas
turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
- Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
- Shaft seal assembly for high speed and high pressure
applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
- Speed control device for a heavy duty shaft --- solar
sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
- Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
- Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
- Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493
- Method for driving two-phase turbines with enhanced
efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
- Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
- Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
- Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842
- Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N91-17401
- Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
- Control circuitry using electronic emulation of a synchro
signal for accurate control of position and rate of rotation
for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
- Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184
- Noncircular rolling joints for vibrational reduction in
slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N91-28580
- Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514
- Magnetostriuctive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N92-15331
- System for testing bearings
[NASA-CASE-MFS-28589-1] c 37 N92-17584
- J-hook latching device
[NASA-CASE-GSC-13200-1] c 37 N92-21500
- SHAKERS**
- Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598
- SHALE OIL**
- In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
- Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012
- Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428
- SHALES**
- Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
- Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
- Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
- Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012
- SHAPE CONTROL**
- Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
- Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
- Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
- SHAPE MEMORY ALLOYS**
- Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
- Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
- Device for removing foreign objects from anatomic
organs
[NASA-CASE-GSC-13306-1] c 52 N91-28727
- SHAPED CHARGES**
- Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
- Lateral displacement system for separated rocket stages
Patent
[NASA-CASE-XLA-04804] c 31 N71-23008
- SHAPERS**
- Mandrel for shaping solid propellant rocket fuel into a
motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
- Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
- Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721
- SHAPES**
- Stripline feed for a microstrip array of patch elements
with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104
- Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042
- SHARKS**
- Process for conditioning tanned sharkskin and articles
made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545
- SHARPNESS**
- Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149
- SHEAR CREEP**
- Instrument for measuring torsional creep and recovery
Patent
[NASA-CASE-XLE-01481] c 14 N71-10781
- SHEAR FLOW**
- Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
- SHEAR PROPERTIES**
- Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
- SHEAR STRESS**
- Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
- Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
- Bonded joint and method --- for reducing peak shear
stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
- Method and apparatus for detecting laminar flow
separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
- Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N91-13860
- SHEARING**
- Elastomer coated filler and composites thereof
comprising at least 60% by weight of a hydrated filler and
an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
- SHELL ANODES**
- Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256
- SHELLS (STRUCTURAL FORMS)**
- Channel-type shell construction for rocket engines and
the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
- SHIELDING**
- Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
- Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
- System for the measurement of ultra-low stray light levels
--- determining the adequacy of large space telescope
systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
- Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
- Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602
- Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168
- Driven shielding capacitive proximity sensor
[NASA-CASE-GSC-13377-1] c 63 N91-28785
- Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N92-15114
- SHIFT REGISTERS**
- Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
- Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
- Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
- Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
- Feedback shift register with states decomposed into
cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
- MOD 2 sequential function generator for multibit binary
sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
- Pseudonoise sequence generators with three tap linear
feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175

- A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373
Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

SHIP HULLS

- Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071

SHOCK ABSORBERS

- Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159
Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845
Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354
Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092
Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450
Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982
Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492

SHOCK LOADS

- Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612

SHOCK MEASURING INSTRUMENTS

- Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390

SHOCK RESISTANCE

- Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

SHOCK TUBES

- Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

SHOCK WAVE INTERACTION

- Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563

SHOCK WAVE LUMINESCENCE

- Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896

SHOCK WAVE PROFILES

- Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975

SHOCK WAVES

- Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911

- Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439
Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822

SHOES

- Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380

SHORT CIRCUITS

- Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537

SHOT PEENING

- Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454

SHOULDERERS

- Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507

SHROUDED NOZZLES

- Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121

SHROUDED TURBINES

- Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978

SHROUDS

- Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

SHUTTERS

- High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

SHUTTLE DERIVED VEHICLES

- Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787
Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035

SIDE INLETS

- Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

SIDE BANDS

- Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567

SIDELobe REDUCTION

- Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

SIGNAL ANALYSIS

- Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852

- Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966

SIGNAL ANALYZERS

- System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309

SIGNAL DETECTION

- Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N91-14607
Real time pre-detection dynamic range compression
[NASA-CASE-NPO-18098-1-CU] c 74 N91-23890
Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-27439
Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N91-32926
Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-10125

SIGNAL DETECTORS

- Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534

SIGNAL DISTORTION

- Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249

SIGNAL ENCODING

- Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266

Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523

SIGNAL GENERATORS

Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467

Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468

Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281

Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722

Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255

Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545

Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622

Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798

Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374

Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338

System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c 07 N72-11150

Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165

Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255

Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679

Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408

Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148

Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270

System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519

Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582

NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502

Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404

Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348

Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349

Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555

Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185

Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360

Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345

Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

SIGNAL MEASUREMENT

Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

SIGNAL MIXING

Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334

Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308

SIGNAL PROCESSING

Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266

Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300

Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537

Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476

Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669

Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622

Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742

Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804

Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806

Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865

Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866

Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142

Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266

Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138

Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139

Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172

Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225

Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119

Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173

Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172

Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187

Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121

Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386

Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081

Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050

Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096

Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625

Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626

Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711

Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539

Signal conditioning circuit apparatus --- with constant input impedance
[NASA-CASE-ARC-10348-1] c 33 N75-19518

Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485

Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429

Compact bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371

Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366

System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517

Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386

Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131

Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731

Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375

Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319

Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338

Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195

Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073

Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578

System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584

CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396

Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342

Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323

Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577

Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559

Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492

Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348

Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531

Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385

Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684

Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280

Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170

Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951

Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024

Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770

Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340

Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861

Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016

Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598

Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1] c 35 N91-13686

Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N91-13888

Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321

Real time pre-detection dynamic range compression
[NASA-CASE-NPO-18098-1-CU] c 74 N91-23890

Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N91-25316

Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318

Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388

Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-27439

Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N91-27957

Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128

Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N92-15620

Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712

SIGNAL RECEPTION

Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911

Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267

Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841

Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852

Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098

Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741

Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056

Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680

Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171

Ferroluicidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185

Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381

Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952

Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863

SIGNAL REFLECTION

Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267

Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321

SIGNAL STABILIZATION

Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962

Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138

System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982

Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029

SIGNAL TO NOISE RATIOS

System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616

Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911

Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272

Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791

Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545

Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119

Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258

System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146

Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241

Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788

SIGNAL TRANSMISSION

Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974

Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent
[NASA-CASE-XAC-00086] c 09 N70-33182

Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298

Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392

Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791

Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814

Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986

Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311

Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461

Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115

Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194

Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809

Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810

Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486

Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411

Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350

Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889

Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186

Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349

High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546

Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820

Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280

Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530

SIGNATURE ANALYSIS

Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288

SILANES

Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717

Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230

Process for preparation of high-molecular-weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807

Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052

Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501

Process for producing tris (n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280

Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040

SILICA GEL

Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606

Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

SILICA GLASS

Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454

High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

SILICATES

Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979

Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347

SILICIDES

Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040

Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229

Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518

SILICON

Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560

Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292

Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449

Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600

Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920

Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229

Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231

System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703

Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389

Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469

Method of protecting a surface with a silicon-slurry/aluminate coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441

Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501

Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113

Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475

Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518

Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N91-15898

Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014

Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N91-28546

Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121

- Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561
- SILICON ALLOYS**
Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
- SILICON CARBIDES**
A method for the deposition of beta-silicon carbide by isoeptitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-1] c 76 N91-26966
Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers
[NASA-CASE-LEW-15223-1] c 76 N91-26967
Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236
- SILICON COMPOUNDS**
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Polymerizable disilanol having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030
Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Production of mullite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870
- SILICON CONTROLLED RECTIFIERS**
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
- SILICON DIOXIDE**
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197
- SILICON FILMS**
A method for the deposition of beta-silicon carbide by isoeptitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
- SILICON JUNCTIONS**
Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
- SILICON NITRIDES**
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
- SILICON OXIDES**
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
- SILICON POLYMERS**
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
- SILICON RADIATION DETECTORS**
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
- SILICON TRANSISTORS**
Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
- SILICONE RESINS**
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
- SILICONES**
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
- SILICONIZING**
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
- SILOXANES**
Synthesis of siloxane-containing epoxy polymers Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
- SILVER**
Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
- SILVER ALLOYS**
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
- SILVER CHLORIDES**
Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
- SILVER COMPOUNDS**
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-27244
- SILVER ZINC BATTERIES**
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
- SIMD (COMPUTERS)**
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805
- SIMULATION**
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803
Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243
- SIMULATORS**
Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223
Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321
Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344
Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N91-32509
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243
- SIMULTANEOUS EQUATIONS**
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
- SINE SERIES**
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
- SINE WAVES**
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
- SINGLE CRYSTALS**
Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518

Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502

Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-1] c 76 N91-26966

Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers
[NASA-CASE-LEW-15223-1] c 76 N91-26967

Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025

Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561

SINGLE EVENT UPSETS
Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196

SINTERING
Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465

Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468

Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456

Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734

Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502

Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122

SIS (SUPERCONDUCTORS)
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-3-CU] c 76 N92-22041

SIZE (DIMENSIONS)
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535

Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618

SIZE DETERMINATION
Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282

Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431

SIZE SEPARATION
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148

Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036

Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765

SIZING (SHAPING)
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650

SIZING SCREENS
Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966

Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483

SKEWNESS
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420

Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353

SKID LANDINGS
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160

SKIN (ANATOMY)
Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545

Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738

Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

SKIN (STRUCTURAL MEMBER)
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035

Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137

Active control of pressure loads using passive porosity
[NASA-CASE-LAR-14594-1] c 34 N92-17888

SKIN FRICTION
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057

Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470

Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949

Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696

Skin friction balance
[NASA-CASE-LAR-13710-1] c 35 N90-17117

Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071

Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558

Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008

SKIN TEMPERATURE (BIOLOGY)
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780

SKIN TEMPERATURE (NON-BIOLOGICAL)
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085

SKIIRTS
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708

SKY BRIGHTNESS
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

SLEEP
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729

SLEEVES
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877

System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395

Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772

Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137

Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672

SLENDER BODIES
A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540

SLEWING
Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N91-28580

SLICING
Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951

System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703

Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469

Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083

SLIDING
Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609

SLIDING CONTACT
Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734

Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049

Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944

SLIDING FRICTION
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309

SLIP CASTING
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076

SLITS
Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620

Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059

Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686

SLOPES

Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367

Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136

SLOT ANTENNAS

Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148

Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247

Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235

Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864

Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330

Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

SLOTS

Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504

Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110

Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386

Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319

SLUDGE

Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634

SLURRIES

Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795

Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200

Method for producing oxygen from lunar materials
[NASA-CASE-MSC-21759-1] c 25 N92-12079

SLURRY PROPELLANTS

Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382

SMOKE

Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852

Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656

Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418

Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

SODIUM CHLORIDES

Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128

Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644

SODIUM VAPOR

Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231

SOFT LANDING

Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861

Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845

Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

SOFT LANDING SPACECRAFT

Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159

SOIL MECHANICS

Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367

SOIL MOISTURE

Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498

SOIL SCIENCE

Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321

System for plotting subsoil structure and method thereof
[NASA-CASE-NPO-14191-1] c 31 N80-32584

SOILS

Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483

- Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362
- Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
- SOL-GEL PROCESSES**
- Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
- SOLAR ACTIVITY**
- Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
- SOLAR ARRAYS**
- Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
- Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
- Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
- Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c 44 N74-14784
- Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
- Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
- Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
- Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
- Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
- Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
- Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
- Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
- Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
- Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
- Small particle selective emitter
[NASA-CASE-LEW-14731-1] c 44 N91-13802
- Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614
- Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037
- SOLAR CELLS**
- Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
- Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
- Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
- Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
- Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
- Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
- Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050
- Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
- Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
- Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
- Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
- Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
- Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
- Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
- Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
- Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
- Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
- Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
- Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
- Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
- Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
- Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
- Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
- Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041
- Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
- Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
- Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019
- Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
- Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
- Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c 44 N74-14784
- Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
- Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
- Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
- Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c 44 N77-10635
- Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
- Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
- High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
- Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
- Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
- Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
- Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
- Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
- Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
- Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
- Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
- Method for fabricating solar cells having integrated collector grids
[NASA-CASE-LEW-12819-2] c 44 N79-18444
- Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
- Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
- Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
- Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
- Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
- Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
- Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
- Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
- Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
- Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
- Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
- Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
- Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
- Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
- Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
- Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
- High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
- Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
- Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
- High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399
- Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
- Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614
- SOLAR COLLECTORS**
- Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
- Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
- Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
- Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
- Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
- Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
- Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
- Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582
- Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
- Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
- Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
- Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
- Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
- Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
- Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
- Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
- Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- Non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c 44 N79-11471
- Solar cell collector and method for producing same
[NASA-CASE-LEW-12552-2] c 44 N79-11472
- Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481

- Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
- Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
- Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
- Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
- Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
- Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
- Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
- Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
- Wide acceptance angle, high concentration ratio, optical collector
[NASA-CASE-MFS-28295-1] c 74 N91-13999
- SOLAR ELECTRIC PROPULSION**
- Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
- SOLAR ENERGY**
- Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
- Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c 44 N75-32581
- Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
- Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
- Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
- Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
- Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
- Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
- Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
- Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
- Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
- Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
- Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N91-23617
- Lunar radiator shade
[NASA-CASE-MSC-21868-1] c 54 N92-11639
- Lunar radiator shade
[NASA-CASE-MSC-21868-1] c 54 N92-21589
- SOLAR ENERGY ABSORBERS**
- Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c 44 N76-14595
- Solar energy absorber
[NASA-CASE-MFS-22743-1] c 44 N76-22657
- Solar energy trap
[NASA-CASE-MFS-22744-1] c 44 N76-24696
- Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
- Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
- Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- Aluminium or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
- SOLAR ENERGY CONVERSION**
- Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
- High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
- Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
- Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470
- Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
- Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
- Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
- Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
- Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
- Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
- Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
- Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
- Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
- Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
- SOLAR FLUX DENSITY**
- Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
- SOLAR FURNACES**
- High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
- SOLAR GENERATORS**
- GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
- Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- SOLAR GRAVITATION**
- Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
- SOLAR HEATING**
- Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
- Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
- Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
- Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
- Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
- Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
- SOLAR OBSERVATORIES**
- Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
- SOLAR PONDS (HEAT STORAGE)**
- Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525
- Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
- SOLAR POSITION**
- Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552
- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- SOLAR POWERED AIRCRAFT**
- Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154
- SOLAR RADIATION**
- Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
- Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
- Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
- Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c 35 N75-23910
- Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
- Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
- Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474
- Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204
- SOLAR RADIATION SHIELDING**
- High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
- Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
- Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
- Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
- SOLAR RADIO EMISSION**
- Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
- SOLAR REFLECTORS**
- Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
- Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
- Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
- Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
- Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
- Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
- Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
- Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
- Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
- Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
- SOLAR SAILS**
- Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
- Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
- SOLAR SENSORS**
- Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
- Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
- Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
- Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
- Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
- Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
- Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
- Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
- SOLAR SIMULATORS**
- High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
- High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
- SOLAR-PUMPED LASERS**
- Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204
- SOLDERED JOINTS**
- Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
- SOLDERING**
- Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
- Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
- Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
- Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
- Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
- High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N91-28363

SOLDERS

- Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
- Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
- Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729

SOLENOID VALVES

- Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
- Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
- Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
- Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
- Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
- Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573

SOLENOIDS

- Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
- Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
- Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
- Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
- Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357

SOLID CRYOGEN COOLING

- Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

SOLID ELECTRODES

- Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
- Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

SOLID ELECTROLYTES

- Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621

SOLID LUBRICANTS

- Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
- Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
- Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
- Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
- Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
- Pretreatment of lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423
- Solid lubricants on pretreated surfaces
[NASA-CASE-LEW-14474-2] c 27 N92-11186

SOLID PHASES

- Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
- Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286

SOLID PROPELLANT IGNITION

- Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
- Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
- Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
- Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588

SOLID PROPELLANT ROCKET ENGINES

- Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331
- Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
- Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
- Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534

Apparatus and method for control of a solid fueled rocket vehicle Patent

- [NASA-CASE-XNP-00217] c 28 N70-38181
- Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
- Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
- Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
- Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758
- Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
- Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
- Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
- Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143
- Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
- Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
- Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
- Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

SOLID PROPELLANTS

- Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
- Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
- Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
- Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710

SOLID ROCKET BINDERS

- Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
- Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536

SOLID ROCKET PROPELLANTS

- Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
- Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
- Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
- Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
- Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
- Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213
- Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143
- High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342
- Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
- Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536

SOLID STATE

- Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578
- Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438

SOLID STATE DEVICES

- Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
- Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
- Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520
- Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
- Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
- Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612

Switching circuit Patent

- [NASA-CASE-XNP-06505] c 10 N71-24799
- Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
- A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
- Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
- Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
- RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
- Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
- Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135
- Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
- Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
- Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
- Space-charge-limited solid-state triode
[NASA-CASE-NPO-13064-1] c 33 N79-11314
- Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
- Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
- Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
- Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
- Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N88-23941
- Solid state electrical switch employing materials with reversible phase transistors
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010

SOLID STATE LASERS

- Cladding for transverse-pumped solid-state laser
[NASA-CASE-NPO-17355-1-CU] c 36 N91-17360

SOLID SURFACES

- Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

SOLID WASTES

- Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225

SOLID-SOLID INTERFACES

- Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
- Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706

SOLIDIFICATION

- Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
- Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
- Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896
- Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940

SOLIDIFIED GASES

- Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

SOLIDS FLOW

- Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

SOLUBILITY

- Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
- Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
- Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
- Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
- Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N92-10681

SOLUTES

- Specific wavelength colorimeter --- for measuring given solute concentration in test sample
[NASA-CASE-MSC-14081-1] c 35 N74-27860

SOLUTIONS

- Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120

SOLVENT EXTRACTION

- Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465

SOLVENTS

- Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
Process for producing tris (s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419
Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815
Ethynyl terminated imidothioethers and resins therefrom
[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307

SONAR

- Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

SONIC BOOMS

- Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232

SORBATES

- Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465

SORBENTS

- Regenerative Cu/La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073
Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203

SORET COEFFICIENT

- Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187

SORPTION

- Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203
Three-stage sorption type cryogenic refrigeration system and method employing heat regeneration
[NASA-CASE-NPO-18366-1-CU] c 31 N92-17674

SOUND FIELDS

- Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807

SOUND GENERATORS

- Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

SOUND LOCALIZATION

- Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753

- Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522

SOUND PRESSURE

- Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N92-10609
Vacuum-isolation vessel and method for measurement of thermal noise in microphones
[NASA-CASE-LAR-14567-1-CU] c 33 N92-12174

SOUND PROPAGATION

- System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N91-27913

SOUND RANGING

- Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

SOUND TRANSDUCERS

- Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

SOUND TRANSMISSION

- Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N91-27913

SOUND WAVES

- Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c 71 N78-10837
Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N91-28321

SOUNDING ROCKETS

- Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853

SPACE CAPSULES

- Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675

SPACE CHARGE

- Space-charge-limited solid-state triode
[NASA-CASE-NPO-13064-1] c 33 N79-11314

SPACE COMMUNICATION

- Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775

- Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240

SPACE DEBRIS

- Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222
Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007

SPACE ENVIRONMENT SIMULATION

- Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661

SPACE ERECTABLE STRUCTURES

- Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214
Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373
Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979
Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614

Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N91-15544

SPACE EXPLORATION
Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238

SPACE FLIGHT
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203

Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449

Whole body cleansing agent
[NASA-CASE-MSC-21589-1] c 54 N91-16566

SPACE FLIGHT FEEDING
Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680

Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595

SPACE INDUSTRIALIZATION
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108

SPACE LABORATORIES
Nano-G research laboratory for a spacecraft
[NASA-CASE-GSC-13197-1] c 18 N91-27201

SPACE MAINTENANCE
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095

Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323

SPACE MANUFACTURING
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774

Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189

Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108

Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323

Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

SPACE MISSIONS
Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990

Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813

A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884

SPACE NAVIGATION
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688

Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644

Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630

SPACE ORIENTATION
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297

SPACE PLATFORMS
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605

Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118

Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958

SPACE PROBES
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609

SPACE PROCESSING
Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631

High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465

Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489

Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701

Nano-G research laboratory for a spacecraft
[NASA-CASE-GSC-13197-1] c 18 N91-27201

SPACE RENDEZVOUS
Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222

Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605

Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

SPACE SHUTTLE BOOSTERS
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

SPACE SHUTTLE MAIN ENGINE
Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035

SPACE SHUTTLE ORBITERS
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408

CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690

High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448

Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323

Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601

Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886

Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035

Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007

SPACE SHUTTLE PAYLOADS
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729

Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660

SPACE SHUTTLES
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087

A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884

Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854

Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041

Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229

Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320

System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519

Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339

Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334

Preloaded brake disc
[NASA-CASE-MSC-21132-1] c 37 N88-29181

Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126

Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N91-15142

SPACE SIMULATORS
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675

Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674

Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026

Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829

SPACE STATION STRUCTURES
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398

Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-2] c 18 N89-28554

Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374

Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N91-21221

SPACE STATIONS
Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676

Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373

Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345

Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214

Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367

Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729

Vapor fragrances
[NASA-CASE-LAR-13680-1] c 35 N87-25561

Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827

Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958

Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180

Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621

Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266

Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798

Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126

Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304

Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

SPACE STORAGE
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

SPACE SUITS
Universal pilot restraint suit and body support therefor Patent
[NASA-CASE-XAC-00405] c 05 N70-41819

Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194

Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195

Biological isolation garment Patent
[NASA-CASE-MSC-12206-1] c 05 N71-17599

Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773

Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439

G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268

Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161

Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256

Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285

Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333

Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098

Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097

Space suit having improved waist and torso movement
[NASA-CASE-ARC-10275-1] c 05 N72-22092

Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125

Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071

Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012

Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405

Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679

Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761

Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735

Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736

Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721

Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651

Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362

Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618

Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619

Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620

Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507

Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344

Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672

Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889

Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860

Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

SPACE TOOLS

Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718

Quick application/release nut with engagement indicator
[NASA-CASE-MSC-21799-1] c 37 N92-11359

SPACE TRANSPORTATION SYSTEM

Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398

Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

SPACE VEHICLE CHECKOUT PROGRAM

Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604

Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566

High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588

SPACEBORNE EXPERIMENTS

Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

Nano-G research laboratory for a spacecraft
[NASA-CASE-GSC-13197-1] c 18 N91-27201

SPACEBORNE TELESCOPES

Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969

Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015

Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248

Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124

Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333

SPACECRAFT

Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058

Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880

Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187

High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850

Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262

Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609

SPACECRAFT ANTENNAS

Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521

Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965

Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136

Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247

Singly-curved reflector for use in high-gain antennas
[NASA-CASE-NPO-11361] c 07 N72-32169

Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176

Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011

Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183

Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

SPACECRAFT CABIN ATMOSPHERES

Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792

Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283

Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722

SPACECRAFT CABINS

Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860

SPACECRAFT COMMUNICATION

Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974

Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961

Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473

Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888

VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614

Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577

Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864

Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261

Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779

Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206

Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591

SPACECRAFT COMPONENTS

Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737

Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673

Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906

Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788

Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968

Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912

Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600

Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964

Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434

Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185

Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903

Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842

Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136

Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397

Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041

High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494

Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605

Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310

Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556

Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798

SPACECRAFT CONFIGURATIONS

Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536

Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924

Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582

Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854

Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035

SPACECRAFT CONSTRUCTION MATERIALS

Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996

Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-NXP-08881] c 17 N71-28747

Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149

Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

SPACECRAFT CONTROL

Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158

Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395

Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804

Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938

Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943

Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631

Roll attitude star sensor system Patent
[NASA-CASE-NXP-01307] c 21 N70-41856

Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771

Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132

- Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
- Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
- Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
- Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16098
- Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
- Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
- Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766
- Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
- All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399
- Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
- Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808
- SPACECRAFT DESIGN**
- Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
- Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
- Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16080
- Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222
- Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
- Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
- Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
- Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912
- Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
- Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859
- Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
- Space vehicle system
[NASA-CASE-MSC-12561-1] c 18 N76-17185
- Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
- Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
- A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
- Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380
- SPACECRAFT DOCKING**
- Expanding center probe and drogue Patent
[NASA-CASE-XMS-03613] c 31 N71-16346
- Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912
- Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162
- Docking structure for spacecraft
[NASA-CASE-MFS-20863] c 31 N73-26876
- Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
- Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
- Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112
- Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
- Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
- Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
- Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
- Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
- Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
- Space module assembly, apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
- Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798
- Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126
- Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861
- Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374
- Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N91-25415
- Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200
- Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N92-21727
- SPACECRAFT ELECTRONIC EQUIPMENT**
- Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
- Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
- Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
- Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
- SPACECRAFT ENVIRONMENTS**
- Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
- Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
- Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
- Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
- Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
- Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
- SPACECRAFT EQUIPMENT**
- Four-terminal electrical testing device --- initiator bridgeway resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
- Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958
- Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
- Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578
- Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
- System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
- Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498
- SPACECRAFT GUIDANCE**
- Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
- Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
- Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
- Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
- Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
- Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
- SPACECRAFT INSTRUMENTS**
- Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
- Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
- Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
- Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
- Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
- Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
- Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
- Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
- Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
- Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624
- Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
- Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
- Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359
- Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
- Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
- Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
- Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
- Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
- SPACECRAFT LANDING**
- Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
- Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
- Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812
- SPACECRAFT LAUNCHING**
- Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
- Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958
- SPACECRAFT MODELS**
- Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
- SPACECRAFT MODULES**
- Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
- Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
- Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
- Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
- SPACECRAFT MOTION**
- Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372
- SPACECRAFT POSITION INDICATORS**
- Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
- Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
- SPACECRAFT POWER SUPPLIES**
- Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
- Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
- Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408
- Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
- Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
- Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
- Thermoelectric power system --- for spacecraft
[NASA-CASE-MFS-22002-1] c 44 N76-16612
- Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
- Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
- Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421

Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573

Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410

Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939

Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

SPACECRAFT PROPULSION

Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265

Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931

Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293

Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160

Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179

General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075

Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364

Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035

SPACECRAFT RADIATORS

Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523

Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461

Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903

Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N86-27593

Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586

Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048

Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424

SPACECRAFT RECOVERY

Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410

Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630

Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985

SPACECRAFT REENTRY

Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938

Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006

Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628

SPACECRAFT SHIELDING

Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679

Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353

Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772

Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156

Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142

Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363

High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448

Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449

Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886

Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335

Thermally isolated deployable shield for spacecraft
[NASA-CASE-MFS-28524-1] c 18 N91-25167

Thermally activated retainer means
[NASA-CASE-MSC-21793-1] c 16 N91-28186

SPACECRAFT STABILITY

Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082

Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089

Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158

Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119

Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719

Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

SPACECRAFT STRUCTURES

Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202

Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238

Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16080

Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064

Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890

Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936

Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039

Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487

Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222

Auger attachment method for insulation --- of spacecraft
[NASA-CASE-MSC-12615-1] c 37 N76-19437

Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382

Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718

Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450

Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349

Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035

Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007

SPACECRAFT TELEVISION

Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273

Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300

Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865

SPACECRAFT TEMPERATURE

Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586

Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

SPACECRAFT TRACKING

Ranging system Patent
[NASA-CASE-NPO-10066] c 09 N71-18598

Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813

Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627

Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214

Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321

SPACECRAFTS

Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851

Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481

SPACELAB PAYLOADS

Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

SPALLATION

Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

SPARK CHAMBERS

Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396

Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471

SPARK GAPS

Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897

Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976

SPARK IGNITION

High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925

Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

SPARK PLUGS

High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925

SPARKS

Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320

SPATIAL DISTRIBUTION

Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

SPATIAL FILTERING

Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478

Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301

SPATIAL RESOLUTION

Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

SPECIMENS

Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817

Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756

SPECTRAL BANDS

Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650

SPECTRAL CORRELATION

Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

SPECTRAL REFLECTANCE

Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040

SPECTRAL SENSITIVITY

Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-18567-1-CU] c 36 N87-28006

SPECTRAL SIGNATURES

Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288

SPECTROMETERS

Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599

Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266

Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041

Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491

Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392

Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091

Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040

Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613

Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245

Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492

- Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
- Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
- Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687
- Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
- Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
- FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
- Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671
- SPECTROPHOTOMETERS**
- Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
- High resolution Fourier interferometer-spectrophotometer
[NASA-CASE-NPO-13604-1] c 35 N76-31490
- Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
- SPECTRORADIOMETERS**
- Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389
- SPECTROSCOPIC ANALYSIS**
- Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
- Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150
- Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N91-32167
- SPECTROSCOPIC TELESCOPES**
- Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
- SPECTROSCOPY**
- Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N91-23889
- SPECTRUM ANALYSIS**
- Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
- Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
- Method and apparatus for high resolution spectral analysis
[NASA-CASE-NPO-10748] c 08 N72-20177
- Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
- Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816
- Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-10125
- SPECULAR REFLECTION**
- Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
- SPEECH BASEBAND COMPRESSION**
- Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348
- SPEECH RECOGNITION**
- Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
- SPEED CONTROL**
- System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
- Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
- Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
- Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
- Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
- Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
- SPEED INDICATORS**
- Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
- SPEED REGULATORS**
- A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
- SPENT FUELS**
- Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515
- SPHERES**
- Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
- Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
- Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
- Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
- Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
- Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
- SPHERICAL SHELLS**
- Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
- Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
- Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544
- Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700
- SPHERICAL TANKS**
- Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
- SPHERICAL WAVES**
- Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439
- SPHYGMOGRAPHY**
- Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
- SPIKE NOZZLES**
- Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
- SPIKE POTENTIALS**
- Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
- SPILLING**
- Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431
- SPIN DYNAMICS**
- Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513
- Stabilization of He2(a 3 Sigma u+) molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
- Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
- Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
- SPIN REDUCTION**
- Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
- Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
- Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
- Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
- Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
- SPIN STABILIZATION**
- Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
- Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
- Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
- Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676
- Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
- Passive dual spin misalignment compensators --- gyro stabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097
- Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
- Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
- Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
- Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
- SPINDLES**
- Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
- Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N91-28580
- SPINE**
- Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
- SPIRAL ANTENNAS**
- Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
- SPIRAL WRAPPING**
- Adjustable tension wire guide Patent
[NASA-CASE-XMS-02383] c 15 N71-15918
- Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
- Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
- SPIRALS (CONCENTRATORS)**
- Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
- SPIROMETERS**
- Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
- SPlicing**
- Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
- Permanent wire splicing by an explosive joining process
[NASA-CASE-LAR-13825-1] c 31 N92-16162
- SPLINES**
- Spline-locking payload fastener
[NASA-CASE-GSC-13378-1] c 37 N91-28581
- SPLINTS**
- Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
- SPOILERS**
- Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
- SPOKES**
- Torque sensor having a spoked sensor element support structure
[NASA-CASE-NPO-17461-1-CU] c 35 N91-17350
- SPORES**
- Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
- SPOT WELDS**
- Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
- Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
- SPRAY CHARACTERISTICS**
- Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
- SPRAY NOZZLES**
- Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
- Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
- Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376
- Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
- SPRAYED COATINGS**
- Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
- Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
- Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
- Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
- Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
- Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855

Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

SPRAYERS
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242
Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562
Sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N92-16123

SPRAYING
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588

SPREAD SPECTRUM TRANSMISSION
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546

SPREADING
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809

SPRINGS (ELASTIC)
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827

SPUTTERING
A method for the deposition of beta-silicon carbide by isoelectrolysis
[NASA-CASE-ERC-10120] c 26 N69-33482
Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415

Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Liquid crystal light valve structures
[NASA-CASE-MSC-20038-1] c 76 N85-33826
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160

SQUARE WAVES
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596

SQUARES (MATHEMATICS)
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

SQUEEZE FILMS
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490

SQUIBS
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

SQUID (DETECTORS)
Planar thin film SQUID with integral flux concentrator
[NASA-CASE-MFS-28282-1] c 76 N88-29602

STABILITY
Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
Reflection oscillators employing series resonant crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635
Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566
Adjustable steam producing flexible orifice independent of fluid pressure
[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724

STABILITY AUGMENTATION
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985

STABILITY TESTS
Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146

STABILIZATION
Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Stabilization and oscillation of an acoustically levitated object
[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236
Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499

STABILIZED PLATFORMS
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425

Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323

STABILIZERS
Satellite despin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396

STABILIZERS (AGENTS)
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699

STABILIZERS (FLUID DYNAMICS)
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460

STABLE OSCILLATIONS
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694

STACKS
Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378

STAGE SEPARATION
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874
Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610

STAGNATION PRESSURE
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878

STAGNATION TEMPERATURE
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156

STAINING
Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677

STAINLESS STEELS
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052
Sharps container
[NASA-CASE-MSC-21776-1] c 31 N92-17913

STAMPING
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276

STANDARD DEVIATION

An accelerated training method for back propagation networks
[NASA-CASE-MSC-21625-1] c 53 N91-28730

STANDARDS

Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253

STANDING WAVES

Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

STAR TRACKERS

Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
Star scanner --- with a reticle with a pair of slits having differing separation
[NASA-CASE-GSC-11569-1] c 89 N74-30886
Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247

STAR EFFECT

Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11945-1] c 36 N76-18427
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159

STARTERS

Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360

STARTING

Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939

STATE VECTORS

Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N91-13483

STATIC DEFORMATION

Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653

STATIC DISCHARGERS

Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

STATIC FRICTION

Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489

STATIC INVERTERS

Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470

STATIC LOADS

Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271

STATIC PRESSURE

Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429
Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586

STATIONKEEPING

Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969

STATISTICAL ANALYSIS

Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016

STATISTICAL CORRELATION

Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407

STATOR BLADES

Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544

STATORS

Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608

STEADY STATE

Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c 34 N74-27861
Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691

STEAM

Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824
Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496

STEAM TURBINES

Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104

STEELS

Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170

STEERABLE ANTENNAS

Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264

Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961

STEERING

Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861

STELLAR LUMINOSITY

Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

STELLAR SPECTRA

Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

STENCIL PROCESSES

Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073

STEPPING MOTORS

Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

STEREOPHOTOGRAPHY

Stereo photomicrography system
[NASA-CASE-LAR-10176-1] c 14 N72-20380
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809

STEREOSCOPIC VISION

Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864

STEREOSCOPY

Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920

STERILIZATION

Process for preparing sterile solid propellants Patent
[NASA-CASE-NPO-01749] c 27 N70-41897
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

STERILIZATION EFFECTS

Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200

STIFFENING

Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214

STIFFNESS

Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

STILBENE

Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908

STIMULATED EMISSION

Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832

STIRLING CYCLE

Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

STIRLING ENGINES

Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432

- Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N91-23617

STIRRING

- Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598

STOICHIOMETRY

- Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515
MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559
Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N92-22035

STOPPING

- Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N91-23783

STORAGE

- Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494

STORAGE BATTERIES

- Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641
Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621

STORAGE STABILITY

- Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

STORAGE TANKS

- Expulsion bladder-equipped storage tank structure Patent
[NASA-CASE-XNP-00612] c 11 N70-38182
Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305

STOWAGE (ONBOARD EQUIPMENT)

- Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827

- Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958

STRAIN DISTRIBUTION

- Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541

STRAIN GAGE ACCELEROMETERS

- Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
Angular accelerometer Patent
[NASA-CASE-XMS-05936] c 14 N70-41682

STRAIN GAGE BALANCES

- Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N92-10185

STRAIN GAGES

- Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Method of making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
Method of attaching strain gauges to various materials
[NASA-CASE-LAR-13797-1] c 35 N88-30108
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
Treadmill for space flight
[NASA-CASE-MSC-21752-1] c 54 N92-17910

STRAIN MEASUREMENT

- Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011

STRAIN RATE

- Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019

STRAKES

- Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390

STRANDS

- Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

STRAPDOWN INERTIAL GUIDANCE

- All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399

STRAPS

- Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393
Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007

STRATIGRAPHY

- System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584

STREAMS

- Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465

STRESS ANALYSIS

- Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527

STRESS CONCENTRATION

- Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369

STRESS CORROSION

- Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616

STRESS MEASUREMENT

- Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653

STRESS RELAXATION

- Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170

STRESS RELIEVING

- All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824

STRESSES

- Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

STRETCHERS

- Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

STRETCHING

- Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457

STRINGERS

- Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713

- STRINGS**
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
- STRIP TRANSMISSION LINES**
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
- STROBOSCOPES**
Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392
- STRUCTURAL ANALYSIS**
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
- STRUCTURAL DESIGN**
Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154
Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742
Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767
Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609
Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703
High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N91-21157
Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438
Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-31656
Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MSC-21434-1] c 37 N92-10197
- STRUCTURAL DESIGN CRITERIA**
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
- STRUCTURAL ENGINEERING**
Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
- STRUCTURAL FAILURE**
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
- STRUCTURAL MEMBERS**
Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
Method of laminating structural members
[NASA-CASE-XLA-11028-1] c 24 N74-27035
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
- Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976
Method of recertifying a loaded bearing member using a phase point
[NASA-CASE-LAR-14741-1] c 39 N92-11384
- STRUCTURAL STABILITY**
Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737
- STRUCTURAL VIBRATION**
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794
Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Multi-degree of freedom, active vibration control method, and system
[NASA-CASE-LAR-14508-1-CU] c 39 N92-10202
- STRUCTURES**
Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
- STRUTS**
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
Variable length strut with longitudinal compliance and locking capability
[NASA-CASE-MFS-25907-1] c 37 N85-34401
Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767
- STUDS (STRUCTURAL MEMBERS)**
Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
- STYRENES**
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
- SUBASSEMBLIES**
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
- SUBCRITICAL FLOW**
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
- SUBLIMATION**
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- SUBMARINES**
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
- SUBMERGING**
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
- Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289
- SUBMILLIMETER WAVES**
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197
- SUBMINIATURIZATION**
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
- SUBREFLECTORS**
Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516
- SUBSONIC SPEED**
Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
- SUBSONIC WIND TUNNELS**
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
- SUBSTRATES**
Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685

Method of applying a thermal barrier coating system to a substrate
 [NASA-CASE-LEW-15020-2] c 24 N91-25202
 Pressure transducer and system for cryogenic environments
 [NASA-CASE-LAR-14579-1] c 35 N91-28546
 Etching method for photoresists or polymers
 [NASA-CASE-ARC-11873-2] c 25 N91-31258
 Ceramic coatings on smooth surfaces
 [NASA-CASE-LEW-15164-2] c 27 N91-32229
 Whiskerless Schottky diode
 [NASA-CASE-GSC-13063-2-CU] c 33 N92-16197
 Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
 [NASA-CASE-NPO-17736-2-CU] c 24 N92-18561

SUBSTRUCTURES

Support structure for irradiated elements Patent
 [NASA-CASE-XNP-06031] c 15 N71-15606
 Opto-mechanical subsystem with temperature compensation through isothermal design
 [NASA-CASE-GSC-12059-1] c 35 N77-27366
 System for detecting substructure microfractures and method therefore
 [NASA-CASE-NPO-14192-1] c 39 N80-10507
 Elevated waterproof access floor system and method of making the same
 [NASA-CASE-ARC-11363-1] c 31 N87-16918

SUCTION

Method for maintaining precise suction strip porosities
 [NASA-CASE-LAR-13638-1] c 31 N90-19427

SUGARS

Production of butanol by fermentation in the presence of cocultures of clostridium
 [NASA-CASE-NPO-16203-1] c 23 N85-35227
 Apparatus and method for cellulose processing using microwave pretreatment
 [NASA-CASE-MS-C-21936-1] c 25 N92-19486

SULFATES

Intumescent paints Patent
 [NASA-CASE-ARC-10099-1] c 18 N71-15469

SULFIDES

Stabilized lanthanum sulphur compounds --- thermoelectric materials
 [NASA-CASE-NPO-16135-1] c 25 N83-24572

SULFONES

Electrolytic cell structure
 [NASA-CASE-LAR-11042-1] c 33 N75-27252
 Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
 [NASA-CASE-LAR-12858-1] c 27 N83-34041
 Ethynyl and substituted ethynyl-terminated polysulfones
 [NASA-CASE-LAR-12931-1] c 27 N84-22747
 Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
 [NASA-CASE-LAR-12858-2] c 27 N85-20124
 Ethynyl and substituted ethynyl-terminated polysulfones
 [NASA-CASE-LAR-12931-2] c 27 N86-21675
 Sulfone-ester polymers containing pendent ethynyl groups
 [NASA-CASE-LAR-13316-1] c 27 N86-27450
 Semi-2-interpenetrating networks of high temperature systems
 [NASA-CASE-LAR-13450-1] c 27 N87-28657
 Ethynyl terminated imidethioethers and resins therefrom
 [NASA-CASE-LAR-13910-2-CU] c 27 N91-31307
 Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
 [NASA-CASE-MS-C-21503-1] c 27 N92-10091

SULFONIC ACID

Intumescent coatings containing 4,4'-dinitrosulfanilide
 [NASA-CASE-ARC-11042-1] c 24 N78-14096
 The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
 [NASA-CASE-ARC-11097-1] c 25 N82-24312

SULFUR COMPOUNDS

Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
 [NASA-CASE-ARC-10325] c 06 N72-25147

SULFUR DIOXIDES

Stack plume visualization system
 [NASA-CASE-LAR-11675-1] c 45 N76-17656
 Simultaneous treatment of SO₂ containing stack gases and waste water
 [NASA-CASE-MS-C-16258-1] c 45 N79-12584

SULFURIC ACID

Synthesis of 2,4,8,10-tetroxaspiro[5.5]undecane
 [NASA-CASE-ARC-11243-2] c 23 N85-33187
 Method for producing oxygen from lunar materials
 [NASA-CASE-MS-C-21759-1] c 25 N92-12079

SUM RULES

Computing apparatus Patent
 [NASA-CASE-XGS-04765] c 08 N71-18693

SUN

Sun tracking solar energy collector
 [NASA-CASE-NPO-13921-1] c 44 N79-14526

SUNGLASSES

Soft frame adjustable eyeglasses Patent
 [NASA-CASE-XMS-06064] c 05 N71-23096

SUNLIGHT

Illumination system including a virtual light source Patent
 [NASA-CASE-HQN-10781] c 23 N71-30292
 Illumination control apparatus for compensating solar light
 [NASA-CASE-KSC-11010-1] c 74 N79-12890
 Cloud cover sensor
 [NASA-CASE-NPO-14936-1] c 47 N83-32232
 Sun shield
 [NASA-CASE-MS-C-20162-1] c 37 N87-17036
 Lunar radiator shade
 [NASA-CASE-MS-C-21868-1] c 54 N92-11639
 Lunar radiator shade
 [NASA-CASE-MS-C-21868-1] c 54 N92-21589

SUPERCHARGERS

Supercharged topping rocket propellant feed system
 [NASA-CASE-XLE-02062-1] c 20 N80-14188
 Diesel engine catalytic combustor system --- aircraft engines
 [NASA-CASE-LEW-12995-1] c 37 N84-33808

SUPERCONDUCTING FILMS

Method of producing high T(subc) superconducting NBN films
 [NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
 Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
 [NASA-CASE-NPO-17812-2-CU] c 76 N92-22040
 Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
 [NASA-CASE-NPO-17812-3-CU] c 76 N92-22041

SUPERCONDUCTING MAGNETS

Cryogenic apparatus for measuring the intensity of magnetic fields
 [NASA-CASE-XAC-02407] c 14 N69-27423
 Superconducting alternator
 [NASA-CASE-XLE-02824] c 03 N69-39890
 Segmented superconducting magnet for a broadband traveling wave maser Patent
 [NASA-CASE-XGS-10518] c 16 N71-28554
 Superconducting magnet Patent
 [NASA-CASE-XNP-06503] c 23 N71-29049
 Magnetometer using superconducting rotating body
 [NASA-CASE-NPO-13388-1] c 35 N76-16390
 Stable superconducting magnet --- high current levels below critical temperature
 [NASA-CASE-XMF-05373-1] c 33 N79-21264
 Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
 [NASA-CASE-NPO-16257-1] c 31 N85-29082
 Improved superconducting bearings
 [NASA-CASE-GSC-13346-1] c 37 N91-28578

SUPERCONDUCTIVITY

Superconducting alternator Patent
 [NASA-CASE-XLE-02823] c 09 N71-23443
 System for improving signal-to-noise ratio of a communication signal
 [NASA-CASE-MS-C-12259-2] c 07 N72-33146
 Superconductive magnetic-field-trapping device
 [NASA-CASE-XNP-01185] c 26 N73-28710
 Doped Josephson tunneling junction for use in a sensitive IR detector
 [NASA-CASE-NPO-13348-1] c 33 N75-31332
 Method of producing high T(subc) superconducting NBN films
 [NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
 Planar thin film SQUID with integral flux concentrator
 [NASA-CASE-MFS-28282-1] c 76 N88-29602
 Monolithic mm-wave phase shifter using optically activated superconducting switches
 [NASA-CASE-LEW-14878-1] c 74 N91-13996
 Method of preforming and assembling superconducting circuit elements
 [NASA-CASE-LAR-14395-1-CU] c 33 N91-28490
 Improved superconducting bearings
 [NASA-CASE-GSC-13346-1] c 37 N91-28578
 Low cost, formable, high T(sub c) superconducting wire
 [NASA-CASE-LEW-14676-1] c 33 N91-31529
 Passivation of high temperature superconductors
 [NASA-CASE-NPO-17949-1-CU] c 76 N92-10681
 Electromagnetic Meissner effect launcher
 [NASA-CASE-MFS-28323-1] c 14 N92-15081

SUPERCONDUCTORS

Superconductive accelerometer Patent
 [NASA-CASE-XMF-01099] c 14 N71-15969
 Twisted multifilament superconductor
 [NASA-CASE-LEW-11726-1] c 26 N73-26752

Method of fabricating a twisted composite superconductor
 [NASA-CASE-LEW-11015] c 26 N73-32571
 Germanium coated microbridge and method
 [NASA-CASE-MFS-23274-1] c 33 N78-13320
 Method of forming low cost, formable High T(subc) superconducting wire
 [NASA-CASE-LEW-14676-2] c 76 N90-17454
 Method of preforming and assembling superconducting circuit elements
 [NASA-CASE-LAR-14395-1-CU] c 33 N91-28490
 Low cost, formable, high T(sub c) superconducting wire
 [NASA-CASE-LEW-14676-1] c 33 N91-31529

SUPERCOOLING

Method and apparatus for supercooling and solidifying substances
 [NASA-CASE-MFS-25242-1] c 35 N83-29650

SUPERCritical FLUIDS

Method for growth of crystals by pressure reduction of supercritical or subcritical solution
 [NASA-CASE-NPO-15772-1] c 76 N85-29800

SUPERCritical PRESSURES

Oil shale extraction using super-critical extraction
 [NASA-CASE-NPO-15656-1] c 43 N84-23012

SUPERFLUIDITY

Helium refining by superfluidity Patent
 [NASA-CASE-XNP-00733] c 06 N70-34946
 Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
 [NASA-CASE-NPO-13346-1] c 36 N76-29575

SUPERHEATING

Thermal energy storage system --- operating on superheating of liquids
 [NASA-CASE-MFS-23167-1] c 44 N76-31667

SUPERHIGH FREQUENCIES

Dual band combiner for horn antenna
 [NASA-CASE-NPO-14519-1] c 32 N80-23524

SUPERLATTICES

Tailorable infrared sensing device with strain layer superlattice structure
 [NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
 Tailorable infrared sensing device with strain layer superlattice structure
 [NASA-CASE-NPO-16617-2-CU] c 35 N90-17118

SUPERPLASTICITY

Superplastically formed diffusion bonded metallic structure
 [NASA-CASE-FRC-11026-1] c 24 N82-24296

SUPERSATURATION

Crystal growth in a microgravity environment
 [NASA-CASE-MFS-28473-1] c 76 N91-26968

SUPERSONIC AIRCRAFT

Variable sweep wing configuration Patent
 [NASA-CASE-XLA-00230] c 02 N70-33255
 Variable sweep aircraft wing Patent
 [NASA-CASE-XLA-00350] c 02 N70-38011
 Variable sweep aircraft Patent
 [NASA-CASE-XLA-03659] c 02 N71-11041
 Translating horizontal tail Patent
 [NASA-CASE-XLA-08801-1] c 02 N71-11043
 Supersonic aircraft Patent
 [NASA-CASE-XLA-04451] c 02 N71-12243
 Absorptive splitter for closely spaced supersonic engine air inlets Patent
 [NASA-CASE-XLA-02865] c 28 N71-15563
 Oblique-wing supersonic aircraft
 [NASA-CASE-ARC-10470-3] c 05 N76-29217
 Passive venting technique for shallow cavities
 [NASA-CASE-LAR-14031-1] c 05 N90-20079
 Passive venting technique for shallow cavities
 [NASA-CASE-LAR-13875-1] c 05 N91-27156

SUPERSONIC COMBUSTION

Supersonic-combustion rocket
 [NASA-CASE-LEW-11058-1] c 20 N74-13502
 Hypersonic airbreathing missile
 [NASA-CASE-LAR-12264-1] c 15 N78-32168

SUPERSONIC DRAG

Annular supersonic decelerator or drogue Patent
 [NASA-CASE-XLE-00222] c 02 N70-37939

SUPERSONIC FLIGHT

Variable sweep wing aircraft Patent
 [NASA-CASE-XLA-00221] c 02 N70-33266
 High speed flight vehicle control Patent
 [NASA-CASE-XLA-08967] c 02 N71-27088

SUPERSONIC FLOW

Optical probing of supersonic flows with statistical correlation
 [NASA-CASE-MFS-20642] c 14 N72-21407
 Stagnation pressure probe --- for measuring pressure of supersonic gas streams
 [NASA-CASE-LAR-11139-1] c 35 N74-32878
 Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
 [NASA-CASE-LAR-13511-1] c 05 N88-23765

- Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078
- Liquid cooled supersonic total temperature probe
[NASA-CASE-LAR-14435-1-CU] c 09 N91-26159
- SUPERSONIC INLETS**
- Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
- Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
- Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
- SUPERSONIC JET FLOW**
- Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684
- Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586
- SUPERSONIC NOZZLES**
- Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
- Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
- Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
- Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
- SUPERSONIC SPEED**
- Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
- Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429
- SUPERSONIC TRANSPORTS**
- Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
- Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
- Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
- Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
- Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
- SUPERSONIC WIND TUNNELS**
- Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
- Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
- SUPPLYING**
- Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481
- SUPPORT INTERFERENCE**
- Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
- SUPPORT SYSTEMS**
- Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
- Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
- Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
- Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
- Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
- Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
- SUPPORTS**
- A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
- Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
- Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
- Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
- Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
- Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
- Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
- Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
- Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
- Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454
- Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673
- Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412
- Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
- Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
- Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
- Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
- Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
- Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
- Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
- Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
- Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
- Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
- Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
- Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052
- Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
- Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
- Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
- Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608
- Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-14617
- Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541
- Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543
- End effector with astronaut foot restraint
[NASA-CASE-MSC-21721-1] c 54 N92-16559
- SUPPRESSORS**
- Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
- SURFACE ACOUSTIC WAVE DEVICES**
- Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919
- SURFACE CRACKS**
- Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
- SURFACE DEFECTS**
- Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
- Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
- SURFACE DIFFUSION**
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
- Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
- SURFACE DISTORTION**
- Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
- SURFACE EMITTING LASERS**
- Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
- Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489
- SURFACE FINISHING**
- Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
- Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
- Surface finishing --- for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225
- Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
- Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
- Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
- Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
- Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
- Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
- Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
- Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MSC-21487-1] c 25 N90-16887
- Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412
- SURFACE GEOMETRY**
- Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959
- SURFACE IONIZATION**
- Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
- Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
- SURFACE LAYERS**
- Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
- Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
- Pretreatment of lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423
- SURFACE PROPERTIES**
- Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
- Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796
- Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
- Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
- Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
- Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
- Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
- Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
- Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
- Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
- Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
- Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
- Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150
- Solid lubricants on pretreated surfaces
[NASA-CASE-LEW-14474-2] c 27 N92-11186
- SURFACE REACTIONS**
- Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
- Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960

Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
 [NASA-CASE-LAR-13740-1] c 35 N90-22770
 Arc-textured high emittance radiator surfaces
 [NASA-CASE-LEW-14679-1] c 27 N91-25296
 Etching method for photoresists or polymers
 [NASA-CASE-ARC-11873-2] c 25 N91-31258

SURFACE ROUGHNESS

Surface roughness detector Patent
 [NASA-CASE-XLA-00203] c 14 N70-34161
 Optical inspection apparatus Patent
 [NASA-CASE-XMF-00462] c 14 N70-34298
 Contour surveying system Patent
 [NASA-CASE-XLA-08646] c 14 N71-17586
 Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
 [NASA-CASE-NPO-13862-1] c 35 N79-10391
 Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
 [NASA-CASE-LEW-13120-1] c 27 N82-28440
 Ion sputter textured graphite --- anode collector plates in electron tube devices
 [NASA-CASE-LEW-12919-1] c 24 N83-10117
 Ion sputter textured graphite electrode plates
 [NASA-CASE-LEW-12919-2] c 70 N84-28565

SURFACE ROUGHNESS EFFECTS

Meteorological balloon Patent
 [NASA-CASE-XMF-04163] c 02 N71-23007

SURFACE TEMPERATURE

Curved film cooling admission tube
 [NASA-CASE-LEW-13174-1] c 34 N83-27144

SURFACE VEHICLES

Optimal control system for an electric motor driven vehicle
 [NASA-CASE-NPO-11210] c 11 N72-20244
 Vehicle for use in planetary exploration
 [NASA-CASE-NPO-11366] c 11 N73-26238
 Short range laser obstacle detector --- for surface vehicles using laser diode array
 [NASA-CASE-NPO-11856-1] c 36 N74-15145
 Vehicle locating system utilizing AM broadcasting station carriers
 [NASA-CASE-NPO-13217-1] c 32 N75-26194
 Vehicular impact absorption system
 [NASA-CASE-NPO-14014-1] c 37 N79-10420
 Personnel emergency carrier vehicle
 [NASA-CASE-KSC-11282-1] c 85 N87-21755
 Articulated suspension system
 [NASA-CASE-NPO-17354-1-CU] c 37 N90-17153

SURFACE WAVES

Antenna design for surface wave suppression Patent
 [NASA-CASE-XLA-10772] c 07 N71-28980
 Solar energy converter using surface plasma waves
 [NASA-CASE-LEW-13827-1] c 44 N85-21768
 Dual differential interferometer
 [NASA-CASE-LAR-12966-1] c 35 N85-30282

SURFACES

Recoverable rocket vehicle Patent
 [NASA-CASE-XMF-00389] c 31 N70-34176
 Friction measuring apparatus Patent
 [NASA-CASE-XNP-08680] c 14 N71-22995
 Three-axis adjustable loading structure
 [NASA-CASE-FRC-10051-1] c 35 N74-13129
 Photoelectron spectrometer with means for stabilizing sample surface potential
 [NASA-CASE-NPO-13772-1] c 35 N78-10429

SURFACTANTS

Surfactant-assisted liquefaction of particulate carbonaceous substances
 [NASA-CASE-NPO-13904-1] c 25 N79-11152

SURGERY

Tissue macerating instrument
 [NASA-CASE-LEW-12668-1] c 52 N78-14773
 Intra-ocular pressure normalization technique and equipment
 [NASA-CASE-LEW-12955-1] c 52 N80-14684
 Process of making medical clip
 [NASA-CASE-LAR-12650-2] c 52 N84-28389
 Optical joint correlator for real-time image tracking and retinal surgery
 [NASA-CASE-MSC-21509-1] c 74 N91-25840

SURGES

Transient-compensated SCR inverter
 [NASA-CASE-XLA-08507] c 09 N69-39984
 Turn on transient limiter Patent
 [NASA-CASE-GSC-10413] c 10 N71-26531

SURGICAL INSTRUMENTS

Ophthalmic method and apparatus
 [NASA-CASE-LEW-11669-1] c 05 N73-27062
 Ophthalmic liquefaction pump
 [NASA-CASE-LEW-12051-1] c 52 N75-33640
 Cutting head for ultrasonic lithotripsy
 [NASA-CASE-GSC-12944-1] c 52 N86-19885

SURVIVAL EQUIPMENT

Survival couch Patent
 [NASA-CASE-XLA-00118] c 05 N70-33285
 Life preserver Patent
 [NASA-CASE-XMS-00864] c 05 N70-36493
 Soft frame adjustable eyeglasses Patent
 [NASA-CASE-XMS-06064] c 05 N71-23096

SUSPENDING (HANGING)

Parallel motion suspension device Patent
 [NASA-CASE-XNP-01567] c 15 N70-41310
 Reduced gravity simulator Patent
 [NASA-CASE-XLA-01787] c 11 N71-16028
 Suspended mass impact damper Patent
 [NASA-CASE-LAR-10193-1] c 15 N71-27146
 Airfoil flutter model suspension system
 [NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
 Hanging drop crystal growth apparatus and method
 [NASA-CASE-MFS-28206-1-SB] c 76 N90-23242
 Cable suspended windmill
 [NASA-CASE-LAR-13434-1] c 37 N90-23742
 Suspension mechanism and method
 [NASA-CASE-LAR-14142-1] c 37 N90-27116
 Electrostatically suspended rotor for angular encoder
 [NASA-CASE-MFS-28294-1] c 31 N91-14508
 Torsional suspension system for testing space structures
 [NASA-CASE-LAR-14149-1-SB] c 14 N91-21176

SUSPENSION SYSTEMS (VEHICLES)

Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
 [NASA-CASE-NPO-14395-1] c 37 N82-21587
 Articulated suspension system
 [NASA-CASE-NPO-17354-1-CU] c 37 N90-17153

SWEAT

Sweat collection capsule
 [NASA-CASE-ARC-11031-1] c 52 N81-29763

SWEAT COOLING

Transpiration cooled turbine blade manufactured from wires Patent
 [NASA-CASE-XLE-00020] c 15 N70-33226
 Transpirationally cooled heat ablation system Patent
 [NASA-CASE-XMS-02677] c 31 N70-42075
 Method of electroforming a rocket chamber
 [NASA-CASE-LEW-11118-1] c 20 N74-32919

SWEEP CIRCUITS

Multiple slope sweep generator Patent
 [NASA-CASE-XMS-03542] c 09 N71-28926

SWEEP EFFECT

High speed flight vehicle control Patent
 [NASA-CASE-XLA-08967] c 02 N71-27088
 Acoustically swept rotor --- helicopter noise reduction
 [NASA-CASE-ARC-11106-1] c 05 N80-14107

SWEEP FREQUENCY

Swept group delay measurement
 [NASA-CASE-NPO-13909-1] c 33 N78-25319

SWELLING

Intumescent composition, foamed product prepared therewith, and process for making same
 [NASA-CASE-ARC-10304-1] c 18 N73-26572

SWEEP FORWARD WINGS

High performance forward swept wing aircraft
 [NASA-CASE-ARC-11636-1] c 05 N88-28914

SWEEP WINGS

Supersonic aircraft Patent
 [NASA-CASE-XLA-04451] c 02 N71-12243

SWIRLING

Slosh alleviator Patent
 [NASA-CASE-XLA-05749] c 15 N71-19569
 Swirl can primary combustor
 [NASA-CASE-LEW-11326-1] c 23 N73-30665
 Flow modifying device
 [NASA-CASE-LEW-13562-2] c 07 N85-35195
 Vortex motion phase separator for zero gravity liquid transfer
 [NASA-CASE-KSC-11387-1] c 29 N90-20236

SWITCHES

Switching mechanism with energy storage means Patent
 [NASA-CASE-XGS-00473] c 03 N70-38713
 Digital memory in which the driving of each word location is controlled by a switch core Patent
 [NASA-CASE-XNP-01466] c 10 N71-26434
 RF controlled solid state switch
 [NASA-CASE-ARC-10136-1] c 09 N72-22202
 High power RF coaxial switch
 [NASA-CASE-NPO-14229-1] c 33 N80-18285
 Automatic thermal switch
 [NASA-CASE-GSC-12415-1] c 33 N82-24419
 Fiber optic crossbar switch for automatically patching optical signals
 [NASA-CASE-KSC-11104-1] c 74 N83-29032
 Triac failure detector
 [NASA-CASE-MFS-25607-1] c 33 N83-34190
 Heat pipe thermal switch
 [NASA-CASE-GSC-12812-1] c 34 N83-35307

Three-phase power factor controller with induced EMF sensing

[NASA-CASE-MFS-25852-1] c 33 N84-33661
 Laser activated MTOS microwave device
 [NASA-CASE-NPO-16112-1] c 33 N86-19516
 Self-actuating heat switches for redundant refrigeration systems
 [NASA-CASE-NPO-17085-1-CU] c 31 N89-12785
 Solid state electrical switch employing materials with reversible phase transistors
 [NASA-CASE-NPO-17621-1-CU] c 33 N90-17010
 Long period pseudo random number sequence generator
 [NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
 Monolithic mm-wave phase shifter using optically activated superconducting switches
 [NASA-CASE-LEW-14878-1] c 74 N91-13996
 Thermal switch disc for short circuit protection of batteries
 [NASA-CASE-MSC-21428-1] c 33 N91-14537
 Synchronous demodulator
 [NASA-CASE-GSC-13179-1] c 33 N91-26438
 Asymmetric soft-error resistant memory
 [NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
 Transformerless DC-DC voltage amplifier with optically isolated switching devices
 [NASA-CASE-NPO-17994-1-CU] c 33 N92-17907

SWITCHING

Phase detector for three-phase power factor controller
 [NASA-CASE-MFS-25854-1] c 33 N84-27975
 Long period pseudo random number sequence generator
 [NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
 Asymmetric soft-error resistant memory
 [NASA-CASE-NPO-17394-1-CU] c 60 N91-31810

SWITCHING CIRCUITS

Solid state switch
 [NASA-CASE-XNP-09228] c 09 N69-27500
 Power control circuit
 [NASA-CASE-XNP-02713] c 10 N69-39888
 A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
 [NASA-CASE-ERC-10072] c 09 N70-11148
 Space vehicle electrical system Patent
 [NASA-CASE-XMF-00517] c 03 N70-34157
 High speed low level electrical stepping switch Patent
 [NASA-CASE-XAC-00060] c 09 N70-39915
 Switching circuit employing regeneratively connected complementary transistors Patent
 [NASA-CASE-XNP-02654] c 10 N70-42032
 Electronic beam switching commutator Patent
 [NASA-CASE-XGS-01451] c 09 N71-10677
 Electronic amplifier with power supply switching Patent
 [NASA-CASE-XMS-00945] c 09 N71-10798
 SCR blocking pulse gate amplifier Patent
 [NASA-CASE-XLA-07497] c 09 N71-12514
 Magnetic core current steering commutator Patent
 [NASA-CASE-NPO-10201] c 08 N71-18694
 A dc-coupled noninverting one-shot Patent
 [NASA-CASE-XNP-09450] c 10 N71-18723
 Reversible current control apparatus Patent
 [NASA-CASE-XLA-09371] c 10 N71-18724
 Exclusive-Or digital logic module Patent
 [NASA-CASE-XLA-07732] c 08 N71-18751
 Polarization diversity monopulse tracking receiver Patent
 [NASA-CASE-XGS-03501] c 09 N71-20864
 Sight switch using an infrared source and sensor Patent
 [NASA-CASE-XMF-03934] c 09 N71-22985
 Complementary regenerative switch Patent
 [NASA-CASE-XGS-02751] c 09 N71-23015
 Drive circuit utilizing two cores Patent
 [NASA-CASE-XNP-01318] c 10 N71-23033
 Pulse modulator providing fast rise and fall times Patent
 [NASA-CASE-XMS-04919] c 09 N71-23270
 Polarity sensitive circuit Patent
 [NASA-CASE-XNP-00952] c 10 N71-23271
 Increasing efficiency of switching type regulator circuits Patent
 [NASA-CASE-XMS-09352] c 09 N71-23316
 Indexing microwave switch Patent
 [NASA-CASE-NPO-06507] c 09 N71-23548
 Multialarm summary alarm Patent
 [NASA-CASE-XLE-03061-1] c 10 N71-24798
 Switching circuit Patent
 [NASA-CASE-XNP-06505] c 10 N71-24799
 Inverter with means for base current shaping for sweeping charge carriers from base region Patent
 [NASA-CASE-XGS-06226] c 10 N71-25950
 Current steering switch Patent
 [NASA-CASE-XNP-08567] c 09 N71-26000

Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418

Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126

Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859

Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MS-C-13492-1] c 10 N71-28860

Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925

Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212

Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157

Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031

Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199

Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243

Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162

Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197

Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201

Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c 09 N72-22204

Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236

CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273

Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235

Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135

Transparent switchboard
[NASA-CASE-MS-C-13746-1] c 10 N73-32143

High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814

Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429

Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431

Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818

Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385

Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308

Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254

System for automatically switching transformer coupled lines
[NASA-CASE-MS-C-16697-1] c 33 N79-28415

Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472

Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404

Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340

Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538

Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189

Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455

Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663

Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672

Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383

SWITCHING THEORY

Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909

SWIVELS

Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812

Double swivel toggle release
[NASA-CASE-MS-C-21436-1] c 37 N90-21390

SYMBOLS

Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-27439

SYNAPSES

Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974

SYNCHRONISM

Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974

Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281

Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099

Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311

Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326

Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577

Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996

Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550

Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885

SYNCHRONIZED OSCILLATORS

Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469

Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544

Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247

SYNCHRONIZERS

Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468

Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448

Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613

Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865

Pulse code modulated signal synchronizer
[NASA-CASE-MS-C-12462-1] c 32 N74-20809

Pulse code modulated signal synchronizer
[NASA-CASE-MS-C-12494-1] c 32 N74-20810

System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519

Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245

Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747

SYNCHRONOUS MOTORS

Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136

Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524

SYNCHRONOUS SATELLITES

Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958

Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088

Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287

Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854

Satellite interlace synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149

Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020

Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265

Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

SYNTHESIS

Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236

Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237

Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238

Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980

SYNTHESIS (CHEMISTRY)

Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515

Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104

Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256

Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396

Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041

Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749

Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973

Synthesis of 2,4,8,10-tetroxaspiro[5,5]undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187

Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280

Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455

Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

Perfluoro (imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582

Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675

Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450

Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525

Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526

The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515

Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516

Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907

Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112

Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847

Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698

Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564

Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575

Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469

Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474

Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692

Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404

Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040

Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814

Polyenamides from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667

Polyphenylquinoxalines containing alkylendioxo groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337

Novel polyimide compositions based on 4,4': isophthaloyldipthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148

Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259

Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260

Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MSC-21487-1] c 25 N90-16887

Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950

New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300

The 1-((diorganoxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133

Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180

Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118

Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209

Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497

Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545

Process for lowering the dielectric constant of polyimides using diamine acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546

Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953

Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14345-1] c 27 N90-26954

Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956

Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560

N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419

Ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N91-15402

Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141

Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N91-23237

Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185

Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N91-28425

SYNTHESIZERS

Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525

SYNTHETIC APERTURE RADAR

Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391

Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195

Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975

Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918

Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327

Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594

Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595

Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621

Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546

SYNTHETIC FIBERS

Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835

Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285

Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747

Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391

Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262

Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187

Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562

SYNTHETIC FUELS

Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261

Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475

SYNTHETIC RESINS

Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895

Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272

Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358

Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545

N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419

SYNTHETIC RUBBERS

Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271

SYRINGES

Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605

Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

SYSTEM EFFECTIVENESS

System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865

Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N92-17860

SYSTEM FAILURES

Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698

Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504

Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115

SYSTEMS ANALYSIS

Analog-to-digital converter analyzing system
[NASA-CASE-NPO-10560] c 08 N72-22166

SYSTEMS ENGINEERING

Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929

Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039

Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050

Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190

Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285

Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894

Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417

Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435

Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439

Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440

High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544

Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395

Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834

Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864

Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045

Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060

Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721

Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722

Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723

Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968

Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969

Filter valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024

Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025

Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026

Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042

Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084

Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336

Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401

Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790

Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597

Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681

Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750

Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840

Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841

Broadband modified turnstile antenna Patent
[NASA-CASE-MSC-12209] c 09 N71-24842

Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843

BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890

Noninterruptible digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891

Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903

Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904

Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975

Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787

Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788

Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364

Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031

Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032

Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624

Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414

Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595

Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495

Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386

Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397

System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132

Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866

Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124

Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502

Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119

Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526

Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481

Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439

Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716

System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447

Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961

Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

SYSTOLIC ARRAYS

Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713

Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595

T

TABS (CONTROL SURFACES)

Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947

Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-31656

TACHOMETERS

Digital cardiometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896

Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904

Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473

Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436

Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

TACTILE SENSORS (ROBOTICS)

Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013

Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921

TAIL ASSEMBLIES

Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408

Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

TAKEOFF

Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807

Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157

Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

TANGENTS

Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230

TANK GEOMETRY

Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948

TANKERS

Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610

TANKS (COMBAT VEHICLES)

Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1-CU] c 37 N87-17034

TANKS (CONTAINERS)

Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348

Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285

Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472

Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029

Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511

TANTALUM

Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646

Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987

Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808

Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

TANTALUM ALLOYS

Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483

Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182

TANTALUM CARBIDES

Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206

TANTALUM OXIDES

Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761

TAPE RECORDERS

Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467

Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609

Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978

Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420

Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448

Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710

Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001

Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698

A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613

Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119

Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426

TAPERED COLUMNS

Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658

Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659

TAPERING

Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672

TAPES

High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425

Method for non-destructive estimation of waveguide directional coupler dimensions
[NASA-CASE-NPO-18454-1-CU] c 33 N92-17865

TARGET ACQUISITION

Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437

Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235

Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160

TARGET RECOGNITION

Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980

Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301

TARGET SIMULATORS

Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855

Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

TARGETS

Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319

Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266

Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724

Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998

Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200

Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811

TECHNOLOGY UTILIZATION

Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023

TECTONICS

Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

TEETH

Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

TEFLON (TRADEMARK)

Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492

Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029

Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

TELECOMMUNICATION

Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266

Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281

Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791

Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613

Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917

Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118

Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084

Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523

Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582

Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

TELEMETRY

Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541

Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333

Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090

Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699

Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525

Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624

Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840

Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577

Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153

Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172

Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226

Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121

Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012

Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245

Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863

Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061

Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371

TELEOPERATORS

Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758

Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724

Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542

Teleoperator control system
[NASA-CASE-NPO-18116-1-CU] c 37 N91-32509

A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510

Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126

Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036

TELEPHONES

Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

TELEPHONY

Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524

TELEROBOTICS

Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126

TELESCOPES

Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321

Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568

Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627

Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125

Rotable accurate reflector system for telescopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229

Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444

Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409

Boreoscope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452

Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393

Servo-controlled intravitral microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123

Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1-CU] c 74 N86-33138

Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N91-32923

TELETYPEWRITER SYSTEMS

Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102

TELEVISION CAMERAS

Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273

Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807

Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612

Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109

TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387

Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865

Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154

Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427

Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850

Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126

TELEVISION EQUIPMENT

Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300

Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433

Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618

Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115

Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813

Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014

Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186

System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

TELEVISION RECEIVERS

Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579

TELEVISION RECEPTION

Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

TELEVISION SYSTEMS

Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539

Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468

Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579

Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728

Large TV display system
[NASA-CASE-NPO-16932-1-CU] c 33 N87-15413

Optical joint correlator for real-time image tracking and retinal surgery
[NASA-CASE-MSC-21509-1] c 74 N91-25840

Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126

Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-17675

TELEVISION TRANSMISSION

Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449

Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790

Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485

TELLURIUM

Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226

TEMPERATURE

Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

TEMPERATURE COMPENSATION

Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440

Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604

Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554

Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965

Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810

Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496

Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214

Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366

Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294

TEMPERATURE CONTROL

Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343

Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979

Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617

Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847

Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979

Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582

Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049

Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620

Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906

Method and apparatus for controllably heating fluid Patent
[NASA-CASE-XMF-04237] c 33 N71-16278

Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357

Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445

Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792

Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890

Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876

- Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
- Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MS-C-13917-1] c 05 N72-15098
- Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
- Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
- Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
- Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
- Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
- Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
- Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039
- Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
- Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
- Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
- Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
- Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
- Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
- Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
- Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
- Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
- Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
- Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
- Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
- Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
- Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
- High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105
- Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544
- Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
- Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717
- Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MS-C-21428-1] c 33 N91-14537
- Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MS-C-21434-1] c 37 N92-10197
- TEMPERATURE DISTRIBUTION**
- Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
- Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
- Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943
- TEMPERATURE EFFECTS**
- Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
- Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
- Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
- Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
- Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
- Radiometric temperature reference Patent
[NASA-CASE-MS-C-13276-1] c 14 N71-27058
- Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
- High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
- Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
- Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
- Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
- Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
- Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
- Flexible diaphragm-extreme temperature usage
[NASA-CASE-MS-C-20797-2] c 35 N91-21494
- High temperature, flexible, fiber-perform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043
- TEMPERATURE GRADIENTS**
- Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
- Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
- Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
- Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
- Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
- Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580
- High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750
- TEMPERATURE MEASUREMENT**
- Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
- Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
- Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
- Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
- Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
- Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
- Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
- Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
- Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089
- Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
- Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
- Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
- Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
- Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
- Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
- Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
- Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
- Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
- Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
- Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770
- Tank gauging apparatus and method
[NASA-CASE-MS-C-21059-3] c 35 N91-21495
- Plug-type heat flux gauge
[NASA-CASE-LEW-14967-1] c 35 N91-31608
- TEMPERATURE MEASURING INSTRUMENTS**
- Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
- Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058
- Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
- Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
- High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
- Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
- Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
- Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580
- TEMPERATURE PROBES**
- Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
- Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
- Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580
- Liquid cooled supersonic total temperature probe
[NASA-CASE-LAR-14435-1-CU] c 09 N91-26159
- TEMPERATURE PROFILES**
- Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
- Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N91-23662
- TEMPERATURE SENSORS**
- Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
- Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
- Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
- Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
- Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
- Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
- Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
- Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761
- Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c 35 N75-25122
- Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MS-C-18627-1] c 74 N82-30071
- Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
- Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
- TEMPLATES**
- Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
- Method of inseting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197
- TENSILE PROPERTIES**
- Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
- Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953
- Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N91-27175
- Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562
- TENSILE STRENGTH**
- Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
- Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
- Apparatus for tensile testing Patent
[NASA-CASE-KXS-06250] c 14 N71-15600
- Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
- Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834

Device for use in loading tension members --- characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c 14 N75-24794
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462

TENSILE STRESS
Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643
Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379

TENSILE TESTS
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N91-27175

TENSION
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615

TENSORS
Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918

TERMINAL GUIDANCE
Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519

TERNARY SYSTEMS
Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868

TERRAIN
Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589
Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546

TERRAIN ANALYSIS
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384

TEST CHAMBERS

Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241

TEST EQUIPMENT
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MSC-15158-1] c 14 N72-17325
Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

TEST FACILITIES
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774

Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245

TEST STANDS
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094
Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884

TEST VEHICLES
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768

TETHERED SATELLITES
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119

TETHERING
Cable arrangement for rigid tethering Patent
[NASA-CASE-XLA-02332] c 32 N71-17609
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936

TETHERLINES
Flexible/rigidifiable cable assembly
[NASA-CASE-MSC-13512-1] c 15 N72-22485
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037

TETRAETHYL ORTHOSILICATE
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172

TETRAPHENYLS
Metal containing polymers from cyclic tetrameric phenylphosphonitriamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363

TEXTILES
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405

TEXTS
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

TEXTURES
Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117

THERAPY
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

THERMAL ABSORPTION
Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525

THERMAL ANALYSIS
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N92-21710

THERMAL COMFORT
Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002

THERMAL CONDUCTIVITY
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105
Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355

Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605

Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356

Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668

Heat transfer device
[NASA-CASE-LEW-14162-2] c 24 N91-25201

Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385

Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N91-28582

THERMAL CONDUCTORS
Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717

Solar energy absorber
[NASA-CASE-MFS-22743-1] c 44 N76-22657

THERMAL CONTROL COATINGS
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047

Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772

Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566

Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147

Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160

Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382

Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237

Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096

Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355

High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302

Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180

Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331

Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156

High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448

Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449

Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N91-13500

Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412

Method of applying a thermal barrier coating system to a substrate
[NASA-CASE-LEW-15020-2] c 24 N91-25202

Method of preparing a thermal barrier coating
[NASA-CASE-LEW-14999-2] c 27 N91-26376

Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N92-21725

THERMAL DEGRADATION
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146

Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186

Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

THERMAL DIFFUSION
Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968

THERMAL DIFFUSIVITY
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

THERMAL EMISSION
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186

Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N91-25296

THERMAL ENERGY

Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134

Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234

Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155

Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759

Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818

Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379

Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c 44 N76-14595

Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667

Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581

Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443

Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029

Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

Small particle selective emitter
[NASA-CASE-LEW-14731-1] c 44 N91-13802

Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N91-23617

Pulse thermal energy transport system
[NASA-CASE-LEW-15235-1] c 34 N92-10167

Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457

Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037

THERMAL EXPANSION

Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407

Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123

Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260

Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063

Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285

High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132

Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196

Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590

Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333

Flush mounting of thin film sensors
[NASA-CASE-LAR-14446-1] c 31 N91-28454

A process for preparing an assembly of an article and a polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14538-1] c 27 N92-11201

A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121

THERMAL FATIGUE

Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276

THERMAL INSULATION

Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935

Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323

Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583

Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015

Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124

Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897

Cryogenic insulation system Patent
[NASA-CASE-XLE-04222] c 23 N71-22881

Insulation system Patent
[NASA-CASE-XLE-02647] c 18 N71-23658

Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816

Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351

Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353

Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285

Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005

Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892

Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572

Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829

Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093

Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037

High current electrical lead --- for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683

Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222

Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264

Auger attachment method for insulation --- of spacecraft
[NASA-CASE-MSC-12615-1] c 37 N76-19437

Flexible pile thermal barrier insulator
[NASA-CASE-MSC-19568-1] c 34 N78-25350

Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221

Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062

Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142

Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317

Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271

Carbonylphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389

A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387

Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002

Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262

Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126

Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841

Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628

Lightweight ceramic insulation and method
[NASA-CASE-MSC-20782-1] c 27 N90-23566

Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-2] c 27 N91-32229

Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091

THERMAL MAPPING
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943

THERMAL NOISE
Vacuum-isolation vessel and method for measurement of thermal noise in microphones
[NASA-CASE-LAR-14567-1-CU] c 33 N92-12174

THERMAL PLASMAS
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753

THERMAL PROTECTION
Thermo-protective device for balances Patent
[NASA-CASE-XAC-00648] c 14 N70-40400

Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623

- Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16080
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947
Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Multiwall thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537
Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412
Thermally isolated deployable shield for spacecraft
[NASA-CASE-MFS-28524-1] c 18 N91-25167
High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560

THERMAL RADIATION

- Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545
Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

THERMAL REACTORS

- Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920

THERMAL RESISTANCE

- Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652

- Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484
Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
Fire resistant polyamide based on 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6-diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751
Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganoxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042

THERMAL SHOCK

- Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996

THERMAL SIMULATION

- Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481

THERMAL STABILITY

- Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871
Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
High temperature resistant polyimide from tetra ester, diamine, diester and N-arynadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675

- Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
Polyimides containing amide and perfluoroisopropyl connecting groups
[NASA-CASE-LAR-14608-1] c 27 N92-17676
Tough, high performance, addition-type thermoplastic polymers
[NASA-CASE-LAR-14346-1] c 27 N92-22044

THERMAL STRESSES

- Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978

THERMIONIC CATHODES

- Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421

THERMIONIC CONVERTERS

- Trode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421
Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228
High current electrical lead --- for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

THERMIONIC DIODES

- Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228

THERMIONIC EMITTERS

- Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646

THERMIONIC POWER GENERATION

- Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441

THERMISTORS

- Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449

THERMOCHEMISTRY

Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368

THERMOCHROMATIC MATERIALS

Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c 35 N75-25122

THERMOCOUPLE PYROMETERS

Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652

THERMOCOUPLES

Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
Heat sensing instrument Patent
[NASA-CASE-XLA-01551] c 14 N71-22989
Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
Method of producing a plug type heat flux gauge
[NASA-CASE-LEW-14967-2] c 35 N91-23460
Liquid cooled supersonic total temperature probe
[NASA-CASE-LAR-14435-1-CU] c 09 N91-26159
Plug-type heat flux gauge
[NASA-CASE-LEW-14967-1] c 35 N91-31608
Method of producing a plug-type heat flux gauge
[NASA-CASE-LEW-14967-2] c 35 N92-22038

THERMODYNAMIC CYCLES
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640

THERMODYNAMIC EFFICIENCY
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

THERMODYNAMIC PROPERTIES
Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
Fire resistant polyamide based on 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568

THERMODYNAMICS
Joule Thomson refrigerator
[NASA-CASE-NPO-17143-1-CU] c 31 N89-14351

THERMOELECTRIC GENERATORS
Protection for energy conversion systems
[NASA-CASE-XGS-04080] c 03 N69-25146

Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037
Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136
Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031

THERMOELECTRIC MATERIALS

Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037
Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572

THERMOELECTRIC POWER GENERATION

Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Thermoelectric power system --- for spacecraft
[NASA-CASE-MFS-22002-1] c 44 N76-16612

THERMOELECTRICITY

Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486
Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385

THERMOLUMINESCENCE

Method of detecting oxygen in a gas
[NASA-CASE-LAR-10668-1] c 06 N73-16106
Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210

THERMOMAGNETIC EFFECTS

Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246

THERMOMETERS

Platinum resistance thermometer circuit
[NASA-CASE-MSC-12327-1] c 35 N77-27368
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624

THERMOPHYSICAL PROPERTIES

Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131

THERMOPILES

Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447

THERMOPLASTIC FILMS

Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814

THERMOPLASTIC RESINS

Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228

Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867
Semi-interpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334
Semi-interpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N92-21711

THERMOPLASTICITY
Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124
A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881
A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955
Tough, high performance, addition-type thermoplastic polymers
[NASA-CASE-LAR-14346-1] c 27 N92-22044

THERMOREGULATION
Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147

THERMOSETTING RESINS
Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388

Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
 [NASA-CASE-NPO-10424-1] c 27 N81-24258
 Elastomer toughened polyimide adhesives
 [NASA-CASE-LAR-12775-1] c 27 N83-28240
 Cellular thermosetting fluoropolymers and process for making them
 [NASA-CASE-GSC-13008-1] c 27 N88-23894
 Semiinterpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
 [NASA-CASE-LAR-13925-1] c 27 N89-25334
 Method of controlling a resin curing process --- for fiber reinforced composites
 [NASA-CASE-MSC-21169-1] c 27 N89-29539
 Cellular thermosetting fluorodioxide polymers
 [NASA-CASE-GSC-13008-2] c 27 N90-16949
 Semi-interpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
 [NASA-CASE-LAR-13925-1] c 27 N92-21711

THERMOSTATS
 Thermal switch Patent
 [NASA-CASE-XNP-00463] c 33 N70-36847
 Thermostatic actuator
 [NASA-CASE-NPO-10637] c 15 N72-12409
 Thermostatically controlled non-tracking type solar energy concentrator
 [NASA-CASE-NPO-13497-1] c 44 N76-14602

THICK FILMS
 Screened circuit capacitors
 [NASA-CASE-LAR-10294-1] c 26 N72-28762

THICKNESS
 Myocardium wall thickness transducer and measuring method
 [NASA-CASE-NPO-13644-1] c 52 N76-29895
 Thickness measurement system
 [NASA-CASE-MFS-23721-1] c 31 N79-28370
 Strong thin membrane structure --- solar sails
 [NASA-CASE-NPO-14021-2] c 27 N80-16163
 Ice detector
 [NASA-CASE-LAR-13776-1] c 35 N88-29149
 Liquid thickness gauge
 [NASA-CASE-LAR-13826-1] c 35 N88-29150

THIN FILMS
 Temperature sensitive capacitor device
 [NASA-CASE-XNP-09750] c 14 N69-39937
 Means and methods of depositing thin films on substrates Patent
 [NASA-CASE-XNP-00595] c 15 N70-34967
 Method of forming thin window drifted silicon charged particle detector Patent
 [NASA-CASE-XLE-00808] c 24 N71-10560
 Vacuum deposition apparatus Patent
 [NASA-CASE-XMF-01667] c 15 N71-17647
 GaAs solar detector using manganese as a doping agent Patent
 [NASA-CASE-XNP-01328] c 26 N71-18064
 Stable amplifier having a stable quiescent point Patent
 [NASA-CASE-XGS-02812] c 09 N71-19466
 Evaporant source for vapor deposition Patent
 [NASA-CASE-XMF-06065] c 15 N71-20395
 Method of electrolytically binding a layer of semiconductors together Patent
 [NASA-CASE-XNP-01959] c 26 N71-23043
 Vacuum evaporator with electromagnetic ion steering Patent
 [NASA-CASE-NPO-10331] c 09 N71-26701
 Magnetic recording head and method of making same Patent
 [NASA-CASE-GSC-10097-1] c 08 N71-27210
 Thin film capacitive bolometer and temperature sensor Patent
 [NASA-CASE-NPO-10607] c 09 N71-27232
 Microelectronic module package Patent
 [NASA-CASE-XMS-02182] c 10 N71-28783
 Fabrication of single crystal film semiconductor devices
 [NASA-CASE-ERC-10222] c 09 N72-22199
 Active microwave irises and windows
 [NASA-CASE-LAR-10513-1] c 07 N72-25170
 Light regulator
 [NASA-CASE-LAR-10836-1] c 26 N72-27784
 Thin film microwave iris
 [NASA-CASE-LAR-10511-1] c 09 N72-29172
 Method of forming transparent films of ZnO
 [NASA-CASE-FRC-10019] c 15 N73-12487
 Light intensity strain analysis
 [NASA-CASE-LAR-10765-1] c 32 N73-20740
 Monitoring deposition of films
 [NASA-CASE-MFS-20675] c 26 N73-26751
 Holographic thin film analyzer
 [NASA-CASE-MFS-20823-1] c 16 N73-30476
 Transparent switchboard
 [NASA-CASE-MSC-13746-1] c 10 N73-32143

Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
 [NASA-CASE-LAR-11053-1] c 25 N74-18551
 Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
 [NASA-CASE-ARC-10643-1] c 25 N75-12087
 System for depositing thin films
 [NASA-CASE-MFS-20775-1] c 31 N75-12161
 Method of producing a storage bulb for an atomic hydrogen maser
 [NASA-CASE-NPO-13050-1] c 36 N75-15029
 Integrated structure vacuum tube
 [NASA-CASE-ARC-10445-1] c 31 N76-31365
 Method of forming metal hydride films
 [NASA-CASE-LEW-12083-1] c 37 N78-13436
 Strong thin membrane structure --- solar sails
 [NASA-CASE-NPO-14021-2] c 27 N80-16163
 Partial interlaminar separation system for composites
 [NASA-CASE-LAR-12065-1] c 24 N81-14000
 Thin film strain transducer
 [NASA-CASE-WLP-10055-1] c 35 N84-28015
 Integrating IR detector imaging systems
 [NASA-CASE-NPO-15805-1] c 74 N84-28590
 Glass heating panels and method for preparing the same from architectural reflective glass
 [NASA-CASE-NPO-15753-1] c 27 N84-33589
 Epitaxial thinning process
 [NASA-CASE-NPO-15786-1] c 76 N84-35112
 Deposition of diamondlike carbon films
 [NASA-CASE-LEW-14080-1] c 31 N85-20153
 Method and apparatus for making an optical element having a dielectric film
 [NASA-CASE-ARC-11611-1] c 74 N87-28416
 Method of producing high T(subc) superconducting NBN films
 [NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
 Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
 [NASA-CASE-NPO-17399-1-CU] c 76 N89-14120
 Edge geometry superconducting tunnel junctions utilizing an Nbn/MgO/Nbn thin film structure
 [NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
 High density tape casting system
 [NASA-CASE-NPO-16901-1-CU] c 31 N90-19425
 Liquid sheet radiator apparatus
 [NASA-CASE-LEW-14295-1] c 31 N91-15424
 Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
 [NASA-CASE-LEW-15222-1] c 76 N91-26966
 Slow positron beam generator for lifetime studies
 [NASA-CASE-LAR-14250-1-SB] c 72 N91-27936
 Flush mounting of thin film sensors
 [NASA-CASE-LAR-14446-1] c 31 N91-28454
 Low cost, formable, high T(sub c) superconducting wire
 [NASA-CASE-LEW-14676-1] c 33 N91-31529
 Biofilm monitoring coupon system and method of use
 [NASA-CASE-MSC-21585-1] c 51 N91-31755
 Reflection type skin friction meter
 [NASA-CASE-LAR-14520-1-SB] c 02 N92-10008
 Solid lubricants on pretreated surfaces
 [NASA-CASE-LEW-14474-2] c 27 N92-11186
 Polyimides containing amide and perfluoroisopropyl connecting groups
 [NASA-CASE-LAR-14608-1] c 27 N92-17676
 Method for producing edge geometry superconducting tunnel junctions utilizing an Nbn/MgO/Nbn thin film structure
 [NASA-CASE-NPO-17812-2-CU] c 76 N92-22040
 Edge geometry superconducting tunnel junctions utilizing an Nbn/MgO/Nbn thin film structure
 [NASA-CASE-NPO-17812-3-CU] c 76 N92-22041

THIN PLATES
 Dichroic plate --- as bandpass filters
 [NASA-CASE-NPO-13506-1] c 35 N76-15435
 Adjustable securing base
 [NASA-CASE-MSC-19666-1] c 37 N78-17383
 Birefringent filter design
 [NASA-CASE-LAR-13887-1] c 36 N92-16290

THIN WALLED SHELLS
 Thin-walled pressure vessel Patent
 [NASA-CASE-XLE-04677] c 15 N71-10577
 Method and apparatus for producing microshells
 [NASA-CASE-NPO-16635-1-CU] c 31 N91-32240

THIN WALLS
 Channel-type shell construction for rocket engines and the like Patent
 [NASA-CASE-XLE-00144] c 28 N70-34860
 Sealed separable connection Patent
 [NASA-CASE-NPO-10064] c 15 N71-17693
 Low mass truss structure
 [NASA-CASE-LAR-10546-1] c 11 N72-25287

Differential pressure control
 [NASA-CASE-MFS-14216] c 14 N73-13418
 Method of fabricating an article with cavities --- with thin bottom walls
 [NASA-CASE-LAR-10318-1] c 31 N74-18089
 Method of fabricating an object with a thin wall having a precisely shaped slit
 [NASA-CASE-LAR-10409-1] c 31 N74-21059

THORIUM FLUORIDES
 Ultraviolet filter
 [NASA-CASE-XNP-02340] c 23 N69-24332

THORIUM OXIDES
 Nuclear thermionic converter --- tungsten-thorium oxide rods
 [NASA-CASE-NPO-13121-1] c 73 N77-18891

THREADS
 Inspection gage for boss Patent
 [NASA-CASE-XMF-04966] c 14 N71-17658
 Threadless fastener apparatus Patent
 [NASA-CASE-XFR-05302] c 15 N71-23254
 Blind fastening apparatus
 [NASA-CASE-LAR-14542-1] c 37 N92-11354
 Quick application/release nut with engagement indicator
 [NASA-CASE-MSC-21799-1] c 37 N92-11359

THREE AXIS STABILIZATION
 Three axis attitude control system
 [NASA-CASE-GSC-12970-1] c 08 N88-23808

THREE DIMENSIONAL FLOW
 Three-dimensional laser velocimeter simultaneity detector
 [NASA-CASE-ARC-11876-1] c 36 N90-25340

THREE DIMENSIONAL MODELS
 Three-dimensional coculture process
 [NASA-CASE-MSC-21560-1] c 51 N90-18852
 Generation of animation sequences of three dimensional models
 [NASA-CASE-MSC-21379-1-SB] c 61 N90-27340
 Digital data registration and differencing compression system
 [NASA-CASE-SSC-00010-1] c 82 N91-23976

THREE DIMENSIONAL MOTION
 Solid state controller three axes controller
 [NASA-CASE-MSC-12394-1] c 08 N74-10942
 Improved docking alignment system
 [NASA-CASE-MSC-21372-1] c 35 N89-12842
 Three dimensional moire pattern alignment
 [NASA-CASE-MSC-21416-1] c 74 N91-32922

THRESHOLD GATES
 Method and apparatus for data compression by a decreasing slope threshold test
 [NASA-CASE-NPO-10769] c 08 N72-11171
 Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
 [NASA-CASE-GSC-11425-2] c 76 N75-25730

THRESHOLD LOGIC
 SCR blocking pulse gate amplifier Patent
 [NASA-CASE-XLA-07497] c 09 N71-12514

THROATS
 Method of making a rocket nozzle
 [NASA-CASE-XMF-06884-1] c 20 N79-21123

THROTTLING
 Hybrid butterfly valve
 [NASA-CASE-SSC-00004-1] c 37 N91-14609

THRUST AUGMENTATION
 Nozzle Patent
 [NASA-CASE-XLA-00154] c 28 N70-33374
 Construction and method of arranging a plurality of ion engines to form a cluster Patent
 [NASA-CASE-XNP-02923] c 28 N71-23081
 Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
 [NASA-CASE-ARC-10754-1] c 07 N75-24736
 Method and apparatus for rapid thrust increases in a turbofan engine
 [NASA-CASE-LEW-12971-1] c 07 N80-18039
 Thrust augmented spin recovery device
 [NASA-CASE-LAR-11970-2] c 08 N81-19130

THRUST BEARINGS
 Thrust bearing
 [NASA-CASE-LEW-11949-1] c 37 N76-29588

THRUST CHAMBER PRESSURE
 Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
 [NASA-CASE-LAR-12562-1] c 08 N81-26152

THRUST CHAMBERS
 Rocket chamber leak test fixture
 [NASA-CASE-XFR-09479] c 14 N69-27503
 Supporting and protecting device Patent
 [NASA-CASE-XMF-00580] c 11 N70-35383
 Rocket thrust chamber Patent
 [NASA-CASE-XLE-00145] c 28 N70-36806
 Method of making a rocket motor casing Patent
 [NASA-CASE-XLE-00409] c 28 N71-15658
 Rocket motor casing Patent
 [NASA-CASE-XLE-05689] c 28 N71-15659

- Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
- Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
- Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
- Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
- Thermal flux transfer system
[NASA-CASE-NPO-12070-1] c 28 N73-32606
- Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
- Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
- Method of injecting fluid propellants into a rocket combustion chamber
[NASA-CASE-LEW-14846-2] c 20 N91-26200
- THRUST CONTROL**
- Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
- Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
- Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
- Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
- High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
- Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766
- Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MS-C-19706-1] c 09 N78-31129
- Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
- THRUST LOADS**
- Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382
- THRUST MEASUREMENT**
- Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
- Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429
- Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
- Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094
- THRUST REVERSAL**
- Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
- THRUST VECTOR CONTROL**
- Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
- Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
- Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
- Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
- Flight control system
[NASA-CASE-MS-C-13397-1] c 21 N72-25595
- Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
- System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275
- Hybrid plume plasma rocket
[NASA-CASE-MS-C-20476-2] c 20 N89-25279
- THRUST-WEIGHT RATIO**
- Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
- THULIUM**
- Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528
- THYRISTORS**
- Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
- Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455
- Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
- Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
- TILES**
- Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MS-C-14182-1] c 27 N76-14264
- Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MS-C-18741-1] c 27 N82-29456
- Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
- Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MS-C-18737-1] c 24 N83-13171
- Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MS-C-18736-1] c 24 N83-13172
- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MS-C-18791-1] c 37 N83-36482
- Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
- Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
- Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628
- Thermally activated retainer means
[NASA-CASE-MS-C-21793-1] c 16 N91-28186
- TILT WING AIRCRAFT**
- Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
- TIME**
- Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
- TIME CONSTANT**
- Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
- TIME DEPENDENCE**
- Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651
- TIME DISCRIMINATION**
- Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
- TIME DIVISION MULTIPLEXING**
- Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
- Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
- Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
- Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
- Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
- Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
- Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
- High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N86-27270
- TIME FUNCTIONS**
- Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
- TIME LAG**
- Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
- Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
- Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224
- Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
- Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
- TIME MEASUREMENT**
- Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
- Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207
- TIME MEASURING INSTRUMENTS**
- Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
- Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357
- TIME OF FLIGHT SPECTROMETERS**
- Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
- TIME SERIES ANALYSIS**
- Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MS-C-12428-1] c 10 N73-25240
- Solid sorbent air sampler
[NASA-CASE-MS-C-20653-1] c 35 N86-26595
- TIME SHARING**
- Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
- TIME SIGNALS**
- System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
- Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
- Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
- Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
- System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
- Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
- TIMING DEVICES**
- Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
- Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
- Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
- Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
- High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411
- Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863
- TIN OXIDES**
- Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
- TIPS**
- Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
- TIRES**
- Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
- Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091
- Method and apparatus for cleaning rubber deposits from airport runways and roadways
[NASA-CASE-LAR-14483-1] c 31 N91-28455
- TISSUES (BIOLOGY)**
- Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
- Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MS-C-14276-1] c 52 N77-14737
- System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
- Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
- Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
- Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
- Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
- Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
- Three-dimensional coculture process
[NASA-CASE-MS-C-21560-1] c 51 N90-18852
- Three-dimensional cell to tissue assembly process
[NASA-CASE-MS-C-21559-1] c 51 N91-13860
- Spiral vane bioreactor
[NASA-CASE-MS-C-21361-1] c 51 N91-21701
- Horizontally rotated cell culture system with a coaxial tubular oxygenator
[NASA-CASE-MS-C-21294-1] c 51 N91-30667
- TITANATES**
- Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532

TITANIUM

- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
- Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
- Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
- Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- TITANIUM ALLOYS**
- Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
- Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
- Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
- Oxidation resistant coatings for titanium alloys and titanium alloy matrix composites
[NASA-CASE-LEW-15155-1] c 27 N91-26375
- TITANIUM NITRIDES**
- Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
- TITANIUM OXIDES**
- Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237
- TOILETS**
- Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733
- Valve for waste collection and storage
[NASA-CASE-MS-C-21025-4] c 54 N91-14723
- Method for waste collection and storage
[NASA-CASE-MS-C-21025-2] c 54 N91-14724
- Method and apparatus for waste collection and storage
[NASA-CASE-MS-C-21025-3] c 54 N91-26747
- TOLERANCES (MECHANICS)**
- Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
- A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955
- TOLUENE**
- Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
- TOMOGRAPHY**
- System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
- Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
- TOOLS**
- Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
- Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
- Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
- Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
- Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
- Stator rotor tools
[NASA-CASE-MS-C-16000-1] c 37 N78-24544
- Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
- Open ended tubing cutters
[NASA-CASE-MS-C-18538-1] c 37 N82-26672
- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MS-C-18791-1] c 37 N83-36482
- Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
- Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MS-C-20319-1] c 37 N85-21649
- Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
- Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N90-10415
- Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N92-21723
- TOOTH DISEASES**
- Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

TOPOGRAPHY

- Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499
- Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546
- TORCHES**
- Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
- Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798
- Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
- Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
- Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980
- Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586
- Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168
- TOROIDAL SHELLS**
- Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
- TOROIDS**
- Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
- Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
- Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539
- TORQUE**
- Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
- Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
- High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383
- Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
- Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
- Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
- Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
- Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
- Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809
- Metallic threaded composite fastener
[NASA-CASE-MS-C-21580-1] c 37 N91-23491
- Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N91-28579
- Metallic threaded composite fastener
[NASA-CASE-MS-C-21580-1] c 37 N92-21726
- Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N92-21728
- TORQUE MOTORS**
- Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
- Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
- A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528
- TORQUE SENSORS (ROBOTICS)**
- Torque sensor having a spoked sensor element support structure
[NASA-CASE-NPO-17461-1-CU] c 35 N91-17350
- TORQUEMETERS**
- Optical torquemeter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
- Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
- System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
- Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
- TORSION**
- Torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N91-21176

- Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184
- TORSO**
- Restraint torso for a pressurized suit
[NASA-CASE-MS-C-12397-1] c 05 N72-25119
- Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
- Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
- TOUCH**
- Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
- Method for measuring cutaneous sensory perception
[NASA-CASE-MS-C-13609-1] c 05 N72-25122
- Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013
- TOUGHNESS**
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
- High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
- TOWERS**
- Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
- TOXICITY**
- Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
- Low toxicity high temperature PMR polyimides
[NASA-CASE-LAR-14639-1] c 27 N92-11199
- TOXICITY AND SAFETY HAZARD**
- Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123
- TOXICOLOGY**
- Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
- TRACE CONTAMINANTS**
- Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
- Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
- Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
- Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174
- TRACE ELEMENTS**
- Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
- Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323
- Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
- Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795
- TRACKED VEHICLES**
- Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-18321-1CU] c 37 N87-17034
- TRACKING (POSITION)**
- Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
- Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
- Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
- Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
- System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c 17 N78-17140
- Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
- Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
- Method and apparatus for positioning a robotic end effector
[NASA-CASE-MS-C-21476-1] c 37 N91-21542

- Optical joint correlator for real-time image tracking and retinal surgery
[NASA-CASE-MS-21509-1] c 74 N91-25840
- TRACKING FILTERS**
Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MS-16461-1] c 33 N79-11313
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
- TRACKING RADAR**
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
- TRACKING STATIONS**
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
- TRACTION**
Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153
- TRAFFIC CONTROL**
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
- TRAILERS**
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
- TRAILING EDGES**
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587
- TRAILING-EDGE FLAPS**
Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
- TRAINING DEVICES**
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193
- TRAINING SIMULATORS**
Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
- TRAJECTORIES**
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724
A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036
- TRAJECTORY ANALYSIS**
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990
- TRAJECTORY CONTROL**
Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
- TRANSducers**
Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
- Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452
Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437
Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
Acoustical transducer calibrating system and apparatus
[NASA-CASE-FRC-10060-1] c 14 N73-27379
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Thin film strain transducer
[NASA-CASE-WLR-10055-1] c 35 N84-28015
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1-CU] c 71 N85-29693
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
Lamina transducer coupler and method of making
[NASA-CASE-LAR-14361-1] c 71 N91-16707
Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N91-28321
A method and apparatus for indicating disbands in joint regions
[NASA-CASE-LAR-14626-1] c 38 N92-17859
- TRANSFER FUNCTIONS**
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- TRANSFORMATIONS (MATHEMATICS)**
Programmable remapper with single flow architecture
[NASA-CASE-MS-21481-1] c 60 N91-13890
- TRANSFORMERS**
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
- Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
System for automatically switching transformer coupled lines
[NASA-CASE-MS-16697-1] c 33 N79-28415
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
- TRANSIENT HEATING**
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-1.71:NPO-15494-2] c 35 N85-34373
- TRANSIENT LOADS**
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
- TRANSISTOR AMPLIFIERS**
Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MS-12033-1] c 09 N71-13531
- TRANSISTOR CIRCUITS**
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N81-20862
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
Temperature compensated current source
[NASA-CASE-MS-11235] c 33 N78-17294
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
- TRANSISTORS**
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799

Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415
Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MS-C-14240-1] c 33 N75-14957
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

TRANSITION FLOW
Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796

TRANSITION TEMPERATURE
Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543

TRANSITIONAL MOTION
Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
Improved docking alignment system
[NASA-CASE-MS-C-21372-1] c 35 N89-12842
Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116
Connection space reduction mechanism
[NASA-CASE-GSC-13220-1] c 37 N91-21525

TRANSLATORS
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323

TRANSLUCENCE
Light transmitting window assembly
[NASA-CASE-MS-C-18417-1] c 74 N85-29750

TRANSMISSION CIRCUITS
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

TRANSMISSION EFFICIENCY
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N91-14587
Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

TRANSMISSION LINES
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Phase modulator Patent
[NASA-CASE-MS-C-13201-1] c 07 N71-28429
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
Phase protection system for ac power lines
[NASA-CASE-MS-C-17832-1] c 33 N74-14956
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
System for automatically switching transformer coupled lines
[NASA-CASE-MS-C-16697-1] c 33 N79-28415

TRANSMISSION LOSS

Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

TRANSMISSIONS (MACHINE ELEMENTS)

Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
Magnetic drive coupling
[NASA-CASE-MS-C-21171-1] c 37 N88-23973

TRANSMISSIVITY

Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28369

TRANSMITTANCE

Light transmitting window assembly
[NASA-CASE-MS-C-18417-1] c 74 N85-29750

TRANSMITTER RECEIVERS

Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Digital communication system
[NASA-CASE-MS-C-13912-1] c 32 N74-30524
Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356

TRANSMITTERS

Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
Digital transmitter for data bus communications system
[NASA-CASE-MS-C-14558-1] c 32 N75-21486
Apparatus for endoscopic examination --- analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863
Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530

TRANSONIC SPEED

Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497

TRANSONIC WIND TUNNELS

Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558

TRANSPARENCY

Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
Light transmitting window assembly
[NASA-CASE-MS-C-18417-1] c 74 N85-29750
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835
Purification system
[NASA-CASE-MS-C-21584-1] c 25 N91-24362
Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950

TRANSPARATION

Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191

TRANSPONDERS

Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161

Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

TRANSPORT VEHICLES

Bidirectional drive and brake mechanism
[NASA-CASE-MS-C-21540-1] c 37 N91-32514

TRANSPORTATION

Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

TRANSVERSE ACCELERATION

Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

TRAPPED PARTICLES

Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

TRAPS

Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652

TRAVELING WAVE AMPLIFIERS

Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HON-10069] c 33 N75-27251
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452

TRAVELING WAVE MASERS

Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410

TRAVELING WAVE TUBES

Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c 33 N79-10339
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N90-22724

TRAVELING WAVES

Maser for frequencies in the 7-20 GHz range
[NASA-CASE-NPO-11437] c 16 N72-28521

TRAYS

Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N91-23933

TREADMILLS

Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733
Treadmill for space flight
[NASA-CASE-MS-C-21752-1] c 54 N92-17910

TREADS

Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034

TRIGGER CIRCUITS

Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455

TRIGONOMETRY

Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688

TRIMERS

Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307

TRIODES

Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

TRITIUM

Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728

TROPOPAUSE

CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

TROPOSPHERE

Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MS-C-21384-1] c 34 N92-16243

TRUCKS

Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

TRUSSES

Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
Structural members, method and apparatus
[NASA-CASE-MS-C-16217-1] c 31 N81-27323
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Shuttle-launch triangular space station
[NASA-CASE-MS-C-20676-1] c 18 N86-24729
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492
Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MS-C-20985-1] c 18 N88-26398
Collet lock joint for space station truss
[NASA-CASE-MS-C-21207-1] c 37 N88-29180
Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N91-15544
Overcenter collet space station truss fastener
[NASA-CASE-MS-C-21504-1] c 18 N91-21221
Apparatus for joining trusses
[NASA-CASE-MFS-28545-1] c 31 N91-25306
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199

TUBE GRIDS

Method for fabricating solar cells having integrated collector grids
[NASA-CASE-LEW-12819-2] c 44 N79-18444

TUBE HEAT EXCHANGERS

Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518

TUBES

Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132

TUMBLING MOTION

Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

TUMORS

Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736

TUNABLE LASERS

Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567
Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N92-16290

TUNGSTEN

Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891

TUNGSTEN ALLOYS

Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279

TUNING

Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N92-16290

TUNNEL DIODES

Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399
Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-2-CU] c 76 N92-22040
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-3-CU] c 76 N92-22041

TUNNELING (EXCAVATION)

Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

TUNNELS

Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
Smart tunnel: Docking mechanism
[NASA-CASE-MS-C-21360-1] c 18 N91-14374

TURBINE BLADES

Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493

TURBINE ENGINES

High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Multi-heat addition turbine engine
[NASA-CASE-LEW-15094-1] c 07 N91-23180

TURBINE PUMPS

Pulsed energy power system Patent
[NASA-CASE-MS-C-13112] c 03 N71-11057
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974

TURBINE WHEELS

Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116

TURBINES

Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345

TURBOCOMPRESSORS

Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

TURBOFAN ENGINES

Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039

- Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
- Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
- Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
- TURBOFANS**
- Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
- Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
- TURBOGENERATORS**
- Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345
- TURBOJET ENGINE CONTROL**
- Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
- TURBOJET ENGINES**
- Telescoping-spike supersonic inlet for aircraft engines
Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
- Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
- Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298
- TURBOMACHINE BLADES**
- Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
- Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
- TURBOMACHINERY**
- Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
- Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
- Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
- Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
- Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
- Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842
- TURBOSHAPTS**
- Optical torque meter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
- High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631
- TURBULENCE**
- Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562
- Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243
- TURBULENCE EFFECTS**
- Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
- TURBULENCE METERS**
- Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
- TURBULENT BOUNDARY LAYER**
- Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
- Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
- TURBULENT FLOW**
- Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
- System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
- System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
- Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
- Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639

TURNSTILE ANTENNAS

- Method and means for damping nutation in a satellite
Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
- Broadband modified turnstile antenna Patent
[NASA-CASE-MSC-12209] c 09 N71-24842
- Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
- Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372

TURRET

- Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution
Patent
[NASA-CASE-NPO-10625] c 09 N71-26182

TWISTING

- Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

TWO BODY PROBLEM

- Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

TWO DIMENSIONAL BODIES

- Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751

TWO PHASE FLOW

- Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
- Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155
- Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292
- Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
- Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
- Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
- Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-2] c 34 N88-23958
- TYPEWRITERS**
- Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

U

U BENDS

- Technique of elbow bending small jacketed transfer lines
Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
- Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129

ULCERS

- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

ULLAGE

- Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348

ULTRAHIGH FREQUENCIES

- Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
- Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

ULTRAHIGH VACUUM

- Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
- Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
- Ultrahigh vacuum gauge having two collector electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324
- In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
- Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286

ULTRAPURE METALS

- Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551

ULTRASONIC AGITATION

- Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514

ULTRASONIC CLEANING

- Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

ULTRASONIC FLAW DETECTION

- Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
- Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
- Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160

ULTRASONIC RADIATION

- Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
- Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
- Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
- Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
- Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
- Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653
- Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914
- Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182

ULTRASONIC SCANNERS

- Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885

ULTRASONIC TESTS

- Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
- Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
- Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
- CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
- Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
- Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160
- Method of recertifying a loaded bearing member using a phase point
[NASA-CASE-LAR-14741-1] c 39 N92-11384

ULTRASONIC WAVE TRANSDUCERS

- Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
- Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
- Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760
- Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
- Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
- CDS solid state phase insensitive ultrasonic transducer --- annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
- Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
- Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
- Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
- Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
- Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621
- ULTRASONIC WELDING**
- Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
- ULTRASONICS**
- Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686

SUBJECT INDEX

Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390

Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282

Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407

Method of recertifying a loaded bearing member
[NASA-CASE-LAR-14168-1] c 39 N92-12302

ULTRAVIOLET FILTERS

Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332

Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521

ULTRAVIOLET LASERS

Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826

ULTRAVIOLET RADIATION

Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979

Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521

Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896

Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443

Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436

Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156

Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066

Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575

Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315

Vitro-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446

Purification system
[NASA-CASE-MSC-21584-1] c 25 N91-24362

ULTRAVIOLET REFLECTION

Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183

Ultraviolet light reflective coating
[NASA-CASE-GSC-11786-1] c 24 N76-24363

Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879

ULTRAVIOLET SPECTRA

Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428

ULTRAVIOLET SPECTROMETERS

Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003

Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699

UMBILICAL CONNECTORS

Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202

Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258

Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259

Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345

Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455

Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450

Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540

High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

UMBILICAL TOWERS

Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199

UNDERWATER ENGINEERING

Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135

Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555

UNDERWATER TESTS

Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097

Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125

UNIFORM FLOW

Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969

UNIONS (CONNECTORS)

Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895

Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713

UNLOADING

Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516

UNMANNED SPACECRAFT

Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036

UNSATURATION (CHEMISTRY)

Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

UP-CONVERTERS

Method and apparatus for quadruphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

UPPER ATMOSPHERE

Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699

Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376

Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360

Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685

UPPER SURFACE BLOWING

Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596

URANIUM 235

Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477

UREAS

Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236

Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687

Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452

URETHANES

Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104

URINALYSIS

Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754

Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052

Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011

Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750

URINATION

Open type urine receptacle
[NASA-CASE-NPO-12324-1] c 05 N72-22093

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711

Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740

Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621

URINE

Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941

UROLOGY

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711

UTERUS

Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

VACUUM CHAMBERS

V

V GROOVES

Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131

Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321

High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177

VACANCIES (CRYSTAL DEFECTS)

Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265

VACUUM

Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460

Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049

Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450

Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283

Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N91-23889

VACUUM APPARATUS

Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180

Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256

Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607

Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489

Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226

Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535

Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395

Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612

Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554

Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343

Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482

Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650

Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817

Vacuum-isolation vessel and method for measurement of thermal noise in microphones
[NASA-CASE-LAR-14567-1-CU] c 33 N92-12174

VACUUM CHAMBERS

High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278

Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932

Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773

Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090

Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994

Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484

Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262

Evacuation valve
[NASA-CASE-LAR-10061-1] c 15 N72-31483

Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444

Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267

Atomic hydrogen storage --- cryotrapping and magnetic field strength
 [NASA-CASE-LEW-12081-2] c 28 N80-20402
 Containerless high temperature calorimeter apparatus
 [NASA-CASE-MFS-23923-1] c 35 N81-19426
 Hermetic seal for a shaft
 [NASA-CASE-NPO-15115-1] c 37 N82-24493
 Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
 [NASA-CASE-MFS-15670-1] c 33 N82-33634
 Sphere forming method and apparatus
 [NASA-CASE-NPO-15070-1] c 31 N83-35176
 Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
 [NASA-CASE-MFS-25670-1] c 33 N84-22884
 Ion generator and ion application system
 [NASA-CASE-MFS-28122-1] c 72 N88-24253
 Water window imaging x ray microscope
 [NASA-CASE-MFS-28485-1] c 35 N91-15519

VACUUM DEPOSITION
 A method for the deposition of beta-silicon carbide by isoeptaxy
 [NASA-CASE-ERC-10120] c 26 N69-33482
 Vacuum deposition apparatus Patent
 [NASA-CASE-XMF-01667] c 15 N71-17647
 Evaporant source for vapor deposition Patent
 [NASA-CASE-XMF-06065] c 15 N71-20395
 Vacuum evaporator with electromagnetic ion steering Patent
 [NASA-CASE-NPO-10331] c 09 N71-26701
 Preparation of dielectric coating of variable dielectric constant by plasma polymerization
 [NASA-CASE-ARC-10892-2] c 27 N79-14214
 Refractory coatings and method of producing the same
 [NASA-CASE-LEW-13169-1] c 26 N82-29415
 Diamondlike flakes
 [NASA-CASE-LEW-13837-2] c 24 N85-21267

VACUUM EFFECTS
 High power RF coaxial switch
 [NASA-CASE-NPO-14229-1] c 33 N80-18285

VACUUM FURNACES
 Apparatus for inserting and removing specimens from high temperature vacuum furnaces
 [NASA-CASE-LAR-10841-1] c 31 N74-27900

VACUUM GAGES
 Thermopile vacuum gage tube simulator Patent
 [NASA-CASE-XLA-02758] c 14 N71-18481
 Gauge calibration by diffusion
 [NASA-CASE-XGS-07752] c 14 N73-30390
 Ultrahigh vacuum measuring ionization gauge
 [NASA-CASE-XLA-05087] c 14 N73-30391
 In situ transfer standard for ultrahigh vacuum gage calibration
 [NASA-CASE-LAR-10862-1] c 35 N74-15092

VACUUM MELTING
 High temperature furnace for melting materials in space
 [NASA-CASE-MFS-20710] c 11 N72-23215

VACUUM PUMPS
 Pressure control valve --- inflating flexible bladders
 [NASA-CASE-ARC-11251-1] c 37 N81-17433

VACUUM SPECTROSCOPY
 Optical multiple sample vacuum integrating sphere
 [NASA-CASE-GSC-12849-1] c 74 N86-26190

VACUUM SYSTEMS
 Shrink-fit gas valve Patent
 [NASA-CASE-XGS-00587] c 15 N70-35087
 Cryogenic connector for vacuum use Patent
 [NASA-CASE-XGS-02441] c 15 N70-41629
 Ionization vacuum gauge with all but the end of the ion collector shielded Patent
 [NASA-CASE-XLA-07424] c 14 N71-18482
 Sorption vacuum trap Patent
 [NASA-CASE-XER-09519] c 14 N71-18483
 Vacuum leak detector
 [NASA-CASE-LAR-11237-1] c 35 N75-19612
 Ampoule sealing apparatus and process --- for housing a semiconductor growth chamber under vacuum
 [NASA-CASE-LAR-12847-1] c 33 N83-16633

VACUUM TUBES
 Integrated structure vacuum tube
 [NASA-CASE-ARC-10445-1] c 31 N76-31365
 Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
 [NASA-CASE-NPO-14474-1] c 26 N80-14229

VALUE
 High impact pressure regulator Patent
 [NASA-CASE-NPO-10175] c 14 N71-18625

VALVES
 Valve actuator Patent
 [NASA-CASE-XHQ-01208] c 15 N70-35409
 Fluid coupling Patent
 [NASA-CASE-XLE-00397] c 15 N70-36492
 High pressure four-way valve Patent
 [NASA-CASE-XNP-00214] c 15 N70-36908

Reinforcing means for diaphragms Patent
 [NASA-CASE-XNP-01962] c 32 N70-41370
 Multiway vortex valve system Patent
 [NASA-CASE-XMF-04709] c 15 N71-15609
 Multiple orifice throttle valve Patent
 [NASA-CASE-XNP-09698] c 15 N71-18580
 High pressure air valve Patent
 [NASA-CASE-MSC-11010] c 15 N71-19485
 Valve seat with resilient support member Patent
 [NASA-CASE-XKS-02582] c 15 N71-21234
 Positive locking check valve Patent
 [NASA-CASE-XMS-09310] c 15 N71-22706
 Dual latching solenoid valve Patent
 [NASA-CASE-XMS-05890] c 09 N71-23191
 Valve seat
 [NASA-CASE-NPO-10606] c 15 N72-25451
 Evacuation valve
 [NASA-CASE-LAR-10061-1] c 15 N72-31483
 Flow control valve --- for high temperature fluids
 [NASA-CASE-NPO-11951-1] c 37 N74-21065
 Airtlock
 [NASA-CASE-MFS-20922-1] c 18 N74-22136
 Reciprocating engines
 [NASA-CASE-MSC-16239-1] c 37 N81-32510
 Prosthetic occlusive device for an internal passageway
 [NASA-CASE-MFS-25740-1] c 52 N84-11744
 Moisture content and gas sampling device
 [NASA-CASE-MSC-18866-1] c 35 N85-29213
 Linear motion valve
 [NASA-CASE-MSC-20148-1] c 37 N85-29284
 Reactant pressure differential control for fuel cell gases
 [NASA-CASE-MSC-20127-2] c 37 N85-34403
 Apparatus for mixing solutions in low gravity environments
 [NASA-CASE-MFS-26047-1] c 29 N90-21209
 Valve for waste collection and storage
 [NASA-CASE-MSC-21025-4] c 54 N91-14723
 Method of injecting fluid propellants into a rocket combustion chamber
 [NASA-CASE-LEW-14846-2] c 20 N91-26200
 Method and apparatus for waste collection and storage
 [NASA-CASE-MSC-21025-3] c 54 N91-26747
 Thruster sealing system and apparatus
 [NASA-CASE-MSC-21898-1] c 37 N92-17872

VANES
 Solar vane actuator Patent
 [NASA-CASE-XNP-05535] c 14 N71-23040
 Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
 [NASA-CASE-NPO-11418-1] c 14 N73-13420
 Amplified wind turbine apparatus
 [NASA-CASE-MFS-23830-1] c 44 N82-24639
 Method of protecting a surface with a silicon-slurry/aluminum coating --- coatings for gas turbine engine blades and vanes
 [NASA-CASE-LEW-13343-1] c 27 N82-28441
 Electrorepulsive actuator
 [NASA-CASE-NPO-17684-1-CU] c 33 N92-22042

VAPOR DEPOSITION
 A method for the deposition of beta-silicon carbide by isoeptaxy
 [NASA-CASE-ERC-10120] c 26 N69-33482
 Apparatus for producing high purity silicon carbide crystals Patent
 [NASA-CASE-XLA-02057] c 26 N70-40015
 Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
 [NASA-CASE-NPO-01961] c 26 N71-29156
 Tungsten contacts on silicon substrates
 [NASA-CASE-GSC-10695-1] c 09 N72-25259
 Deposition apparatus
 [NASA-CASE-LAR-10541-1] c 15 N72-32487
 Deposition of alloy films --- on irregularly shaped metal object
 [NASA-CASE-LEW-11262-1] c 27 N74-13270
 System for depositing thin films
 [NASA-CASE-MFS-20775-1] c 31 N75-12161
 Vapor deposition apparatus --- semiconductors and gallium arsenides
 [NASA-CASE-HQN-10462] c 25 N75-29192
 Chemical vapor deposition reactor --- providing uniform film thickness
 [NASA-CASE-NPO-13650-1] c 25 N79-28253
 Corrosion resistant coating
 [NASA-CASE-NPO-15928-1] c 26 N85-29005
 Ceramic honeycomb structures and the method thereof
 [NASA-CASE-ARC-11652-1] c 27 N87-23737
 Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
 [NASA-CASE-NPO-17399-1-CU] c 76 N89-14120

Method of fabricating germanium and gallium arsenide devices
 [NASA-CASE-GSC-13265-1] c 76 N91-14066

VAPOR PHASES
 Fluid dispensing apparatus and method Patent
 [NASA-CASE-XLE-01182] c 27 N71-15635
 Simple method of making photovoltaic junctions Patent
 [NASA-CASE-XNP-01960] c 09 N71-23027
 Fluid phase analyzer Patent
 [NASA-CASE-NPO-10691] c 14 N71-26199
 Propellant mass distribution metering apparatus Patent
 [NASA-CASE-NPO-10185] c 10 N71-26339
 Pumped two-phase heat transfer loop
 [NASA-CASE-MSC-20841-1] c 34 N87-22950
 Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
 [NASA-CASE-MSC-21384-1] c 34 N92-16243

VAPOR PRESSURE
 Venting vapor apparatus Patent
 [NASA-CASE-XLE-00288] c 15 N70-34247
 Vapor liquid separator Patent
 [NASA-CASE-XMF-04042] c 15 N71-23023
 Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
 [NASA-CASE-NPO-15021-1] c 36 N83-10417

VAPOR TRAPS
 Sorption vacuum trap Patent
 [NASA-CASE-XER-09519] c 14 N71-18483

VAPORIZERS
 Boiler for generating high quality vapor Patent
 [NASA-CASE-XLE-00785] c 33 N71-16104
 Particle analyzing method and apparatus
 [NASA-CASE-NPO-15292-1] c 35 N83-27184
 Continuous laminar smoke generator
 [NASA-CASE-LAR-13014-1] c 09 N85-21178

VAPORIZING
 Gas liquefaction and dispensing apparatus Patent
 [NASA-CASE-NPO-10070] c 15 N71-27372
 Method for controlling vapor content of a gas
 [NASA-CASE-NPO-10633] c 03 N72-28025
 Vaporizing particle velocimeter
 [NASA-CASE-LAR-14685-1] c 02 N91-28135
 Hypervelocity impact shield
 [NASA-CASE-MSC-21420-1] c 18 N92-15114

VAPORS
 Method of evaporation
 [NASA-CASE-NPO-15609-2] c 25 N88-23846
 Drop deployment system for crystal growth apparatus
 [NASA-CASE-MFS-28422-1] c 29 N91-17250

VARACTOR DIODE CIRCUITS
 Phase modulator Patent
 [NASA-CASE-MSC-13201-1] c 07 N71-28429

VARACTOR DIODES
 Varactor high level mixer
 [NASA-CASE-XGS-02171] c 09 N69-24324
 Multiple varactor frequency doubler Patent
 [NASA-CASE-XMF-04958-1] c 10 N71-26414
 Millimeter wave pumped parametric amplifier
 [NASA-CASE-GSC-11617-1] c 33 N74-32660
 Maser cavity servo-tuning system
 [NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

VARIABILITY
 Variable speed drive
 [NASA-CASE-GSC-12643-1] c 37 N83-26078
 Slotted variable camber flap
 [NASA-CASE-LAR-12541-1] c 05 N84-22551

VARIABLE CYCLE ENGINES
 Dual cycle aircraft turbine engine
 [NASA-CASE-LAR-11310-1] c 07 N77-28118
 Variable cycle gas turbine engines
 [NASA-CASE-LEW-12916-1] c 37 N78-17384
 Variable mixer propulsion cycle
 [NASA-CASE-LEW-12917-1] c 07 N78-18067

VARIABLE GEOMETRY STRUCTURES
 Landing arrangement for aerial vehicles Patent
 [NASA-CASE-XLA-00142] c 02 N70-33286
 Variable geometry wind tunnels
 [NASA-CASE-XLA-07430] c 11 N72-22246
 Aircraft engine nozzle
 [NASA-CASE-ARC-10977-1] c 07 N80-32392

VARIABLE PITCH PROPELLERS
 Dual output variable pitch turbofan actuation system
 [NASA-CASE-LEW-12419-1] c 07 N77-14025
 Impact absorbing blade mounts for variable pitch blades
 [NASA-CASE-LEW-12313-1] c 37 N78-10468

VARIABLE SWEEP WINGS
 Variable sweep wing configuration Patent
 [NASA-CASE-XLA-00230] c 02 N70-33255
 Variable sweep wing aircraft Patent
 [NASA-CASE-XLA-00221] c 02 N70-33266
 Variable-span aircraft Patent
 [NASA-CASE-XLA-00166] c 02 N70-34178

- Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011
- Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
- Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
- VARIABLE THRUST**
- Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
- Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
- Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
- VARIATIONS**
- Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
- VECTOR ANALYSIS**
- Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439
- VECTOR CURRENTS**
- Preloadable vector sensitive latch
[NASA-CASE-MSG-20910-1] c 37 N87-25582
- VECTOR QUANTIZATION**
- Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
- VECTOCARDIOGRAPHY**
- Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
- VECTORS (MATHEMATICS)**
- Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918
- VEGETATION GROWTH**
- Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
- Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
- Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
- VEHICLE WHEELS**
- Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
- Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091
- Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125
- Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
- Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
- Tire/wheel concept
[NASA-CASE-LAR-11895-2] c 37 N81-24443
- Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
- VEHICLES**
- Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
- VEHICULAR TRACKS**
- Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-XLA-00495-1] c 37 N82-21587
- Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034
- VELOCITY**
- Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
- VELOCITY COUPLING**
- Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
- VELOCITY MEASUREMENT**
- Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
- Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969
- Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
- Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
- Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
- Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
- Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
- Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
- Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
- Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
- Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
- Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
- Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-1CU] c 35 N86-32695
- Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
- Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
- Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N91-28135
- VELOCITY MODULATION**
- Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
- Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
- VENTILATION**
- Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
- Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
- Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
- VENTILATORS**
- Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
- VENTING**
- Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
- Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
- Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
- Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
- Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758
- Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
- System for venting gas from a liquid storage tank
[NASA-CASE-MSG-21253-1] c 31 N90-20254
- Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N91-27156
- VENTURI TUBES**
- Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
- VENUS (PLANET)**
- Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
- VERTICAL FLIGHT**
- Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
- VERTICAL LANDING**
- Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589
- VERTICAL ORIENTATION**
- Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493
- VERTICAL TAKEOFF AIRCRAFT**
- Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
- Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
- VERY HIGH FREQUENCIES**
- VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614
- VERY LARGE SCALE INTEGRATION**
- Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
- Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
- Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713
- VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
- VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
- VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N90-27040
- Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385
- Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N92-15620
- VERY LONG BASE INTERFEROMETRY**
- System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
- VESTS**
- Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
- VIBRATION**
- Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
- Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
- Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
- Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
- Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116
- Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
- Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N91-28580
- VIBRATION DAMPING**
- Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
- Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
- Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
- Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
- Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
- Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790
- Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
- Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
- Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N91-32511
- Multi-degree of freedom, active vibration control method, and system
[NASA-CASE-LAR-14508-1-CU] c 39 N92-10202
- VIBRATION EFFECTS**
- Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
- Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
- Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
- Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
- VIBRATION ISOLATORS**
- Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
- Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
- Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
- Hermetic sealed vibration damper Patent
[NASA-CASE-MSG-10959] c 15 N71-26243
- Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
- Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
- Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
- Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
- Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSG-12619-2] c 27 N79-12221
- Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
- Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
- Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026

Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
Vacuum-isolation vessel and method for measurement of thermal noise in microphones
[NASA-CASE-LAR-14567-1-CU] c 33 N92-12174

VIBRATION MEASUREMENT
Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329
Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N91-14607

VIBRATION METERS
Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

VIBRATION MODE
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

VIBRATION SIMULATORS
Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416

VIBRATION TESTS
Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412
Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503

VIBRATIONAL SPECTRA
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006

VIDEO COMMUNICATION
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328

VIDEO DATA
Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224

VIDEO EQUIPMENT
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102
Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c 07 N71-27341
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235
Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656

Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N89-26400

VIDEO SIGNALS
Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128

VIDEO TAPE RECORDERS
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

VIDEO TAPES
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340

VIDICONS
Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036

VIEWING
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355
Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809

VINYL COPOLYMERS
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845

VINYL POLYMERS
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438

VINYLDENE
Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500

VIROSES
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693

VISCOELASTICITY
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767

VISCOMETERS
Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429

VISCOSITY
Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
A tough performance simultaneous
semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955

VISCOUS DAMPING
Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

VISIBILITY
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879

VISUAL SPECTRUM
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

VISION
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

VISORS
Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834

VISUAL ACUITY
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759

VISUAL AIDS
Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522

VISUAL CONTROL
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

VISUAL FIELDS
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

VISUAL OBSERVATION
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396

VISUAL PERCEPTION
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256

VISUAL STIMULI
Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114

VITERBI DECODERS
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240

VOICE COMMUNICATION
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Protective suit having an audio transceiver Patent
[NASA-CASE-KSC-10164] c 07 N71-33108
Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MSC-14219-1] c 32 N74-27612

Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366

Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372

Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

VOICE DATA PROCESSING

Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524

Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

VOIDS

Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259

Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014

VOLATILITY

Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607

VOLT-AMPERE CHARACTERISTICS

Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578

The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428

Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193

VOLTAGE AMPLIFIERS

Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798

Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516

Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172

Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 08 N72-21200

Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286

Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942

Transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N92-17907

VOLTAGE CONTROLLED OSCILLATORS

Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626

Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668

Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011

Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709

VOLTAGE CONVERTERS (DC TO DC)

Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049

The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428

Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333

Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365

Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N76-32341

Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392

Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404

Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453

Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663

VOLTAGE GENERATORS

Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057

Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342

Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926

Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252

Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551

Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

VOLTAGE REGULATORS

Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330

Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888

Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986

Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987

Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449

High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583

Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543

Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882

Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085

Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244

Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626

Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407

High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606

Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157

Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243

Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252

Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049

Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929

Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885

Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521

Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295

Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345

Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392

Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360

Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418

Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885

High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

VOLTMETERS

Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521

VOLUME

Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963

Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-21493

VOLUMETRIC ANALYSIS

Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307

VOMITING

Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333

VORTEX BREAKDOWN

Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001

VORTEX GENERATORS

Multistage vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609

Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423

Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194

VORTICES

Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108

Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236

Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345

VORTICITY

Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759

Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410

VULCANIZING

Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124

VULNERABILITY

Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216

W**WAFERS**

Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354

Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950

System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703

Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469

Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780

Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709

High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764

Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634

High voltage V-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177

Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884

Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765

Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113

Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650

Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231

Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879

Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383

Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066

Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-1] c 76 N91-26966

Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers
[NASA-CASE-LEW-15223-1] c 76 N91-26967

Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489

WAKES

Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

WALKING

Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112

Compliant walker
[NASA-CASE-GSC-13348-2] c 52 N91-29714

WALKING MACHINES

Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828

WALL FLOW

Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects

[NASA-CASE-MSC-21384-1] c 34 N92-16243

WALL TEMPERATURE

Method of making apparatus for sensing temperature [NASA-CASE-XLE-05230-2] c 14 N73-13417

Structural heat pipe --- for spacecraft wall thermal insulation system

[NASA-CASE-GSC-11619-1] c 34 N75-12222

Thermal control canister

[NASA-CASE-GSC-12253-1] c 34 N79-31523

Curved film cooling admission tube

[NASA-CASE-LEW-13174-1] c 34 N83-27144

WALLS

Formed metal ribbon wrap Patent

[NASA-CASE-XLE-00164] c 15 N70-36411

Method and apparatus for mapping the distribution of chemical elements in an extended medium

[NASA-CASE-GSC-12808-1] c 25 N85-21279

Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials

[NASA-CASE-NPO-15851-1] c 37 N85-21652

Sound attenuation apparatus

[NASA-CASE-LAR-13968-1] c 71 N91-27913

WARNING SYSTEMS

Out of tolerance warning alarm system for plurality of monitored circuits Patent

[NASA-CASE-XMS-10984-1] c 10 N71-19417

Unsaturating saturable core transformer Patent

[NASA-CASE-ERC-10125] c 09 N71-24893

Electrical apparatus for detection of thermal decomposition of insulation Patent

[NASA-CASE-XMF-03968] c 14 N71-27186

Combustion products generating and metering device

[NASA-CASE-GSC-11095-1] c 14 N72-10375

Stacked array of omnidirectional antennas

[NASA-CASE-LAR-10545-1] c 09 N72-21244

Display research collision warning system

[NASA-CASE-HQN-10703] c 21 N73-13643

System for indicating direction of intruder aircraft

[NASA-CASE-ERC-10226-1] c 14 N73-16483

Silent emergency alarm system for schools and the like

[NASA-CASE-NPO-11307-1] c 10 N73-30205

Apparatus for aiding a pilot in avoiding a midair collision between aircraft

[NASA-CASE-LAR-10717-1] c 21 N73-30641

Inverter ratio failure detector

[NASA-CASE-NPO-13160-1] c 35 N74-18090

Hearing aid malfunction detection system

[NASA-CASE-MSC-14916-1] c 33 N78-10375

Automatic communication signal monitoring system

[NASA-CASE-NPO-13941-1] c 32 N79-10262

Passive intrusion detection system

[NASA-CASE-NPO-13804-1] c 33 N80-23559

Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure

[NASA-CASE-ARC-11317-1] c 35 N83-34272

Rapidly quantifying the relative distention of a human bladder

[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519

Computer access security code system

[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583

Visual aid for the hearing impaired

[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522

Rapidly quantifying the relative distention of a human bladder

[NASA-CASE-LAR-13901-2] c 52 N92-11621

WASHING

Method of neutralizing the corrosive surface of amine-cured epoxy resins

[NASA-CASE-GSC-12686-1] c 27 N83-34039

Method and apparatus for cleaning rubber deposits from airport runways and roadways

[NASA-CASE-LAR-14483-1] c 31 N91-28455

WASTE DISPOSAL

Relief container

[NASA-CASE-XMS-06761] c 05 N69-23192

An airlock

[NASA-CASE-MFS-20922] c 31 N72-20840

Liquid waste feed system

[NASA-CASE-LAR-10365-1] c 05 N72-27102

Reduced gravity fecal collector seat and urinal

[NASA-CASE-MFS-22102-1] c 54 N74-20725

Airlock

[NASA-CASE-MFS-20922-1] c 18 N74-22136

Automatic liquid inventory collecting and dispensing unit

[NASA-CASE-LAR-11071-1] c 35 N75-19611

Automatic biowaste sampling

[NASA-CASE-MSC-14640-1] c 54 N76-14804

Absorbent product and articles made therefrom

[NASA-CASE-MSC-18223-2] c 54 N84-11758

Improved method and apparatus for waste collection and storage

[NASA-CASE-MSC-21025-1] c 31 N87-25495

Valve for waste collection and storage

[NASA-CASE-MSC-21025-4] c 54 N91-14723

Method for waste collection and storage

[NASA-CASE-MSC-21025-2] c 54 N91-14724

Method and apparatus for waste collection and storage

[NASA-CASE-MSC-21025-3] c 54 N91-26747

WASTE ENERGY UTILIZATION

Automotive absorption air conditioner utilizing solar and motor waste heat

[NASA-CASE-NPO-15183-1] c 44 N82-26776

Apparatus for improving the fuel efficiency of a gas turbine engine

[NASA-CASE-LEW-13142-1] c 07 N83-36029

Method for improving the fuel efficiency of a gas turbine engine

[NASA-CASE-LEW-13142-2] c 07 N86-20389

WASTE HEAT

Thermal control system --- removing waste heat from industrial process spacecraft

[NASA-CASE-GSC-12771-1] c 34 N84-14461

Lunar radiator shade

[NASA-CASE-MSC-21868-1] c 54 N92-11639

Lunar radiator shade

[NASA-CASE-MSC-21868-1] c 54 N92-21589

WASTE UTILIZATION

Simultaneous treatment of SO₂ containing stack gases and waste water

[NASA-CASE-MSC-16258-1] c 45 N79-12584

WASTE WATER

Water system virus detection

[NASA-CASE-MSC-16098-1] c 51 N79-10693

Process for purification of waste water produced by a Kraft process pulp and paper mill

[NASA-CASE-NPO-13847-2] c 85 N79-17747

Method for treating wastewater using microorganisms and vascular aquatic plants

[NASA-CASE-NSTL-10] c 45 N84-12654

Combined air and water pollution control system

[NASA-CASE-NST-00007-1] c 45 N91-14662

WATER

High power-high voltage waterload Patent

[NASA-CASE-XNP-05381] c 09 N71-20842

Procedure and apparatus for determination of water in nitrogen tetroxide

[NASA-CASE-NPO-10234] c 06 N72-17094

Hydrogen rich gas generator

[NASA-CASE-NPO-13342-1] c 37 N76-16446

Solar hydrogen generator

[NASA-CASE-LAR-11361-1] c 44 N77-22607

Remote water monitoring system

[NASA-CASE-LAR-11973-1] c 35 N78-27384

Solar photolysis of water

[NASA-CASE-NPO-14126-1] c 44 N79-11470

Water window imaging x ray microscope

[NASA-CASE-MFS-28485-1] c 35 N91-15519

Purification system

[NASA-CASE-MSC-21584-1] c 25 N91-24362

Method and apparatus for cleaning rubber deposits from airport runways and roadways

[NASA-CASE-LAR-14483-1] c 31 N91-28455

Biofilm monitoring coupon system and method of use

[NASA-CASE-MSC-21585-1] c 51 N91-31755

WATER FLOW

Potable water dispenser

[NASA-CASE-MFS-21115-1] c 54 N74-12779

Self-contained, single-use hose and tubing cleaning module

[NASA-CASE-MSC-20857-1] c 37 N87-17035

WATER INJECTION

Reentry communication by material addition Patent

[NASA-CASE-XLA-01552] c 07 N71-11284

WATER LANDING

Vehicle parachute and equipment jettison system Patent

[NASA-CASE-XLA-00195] c 02 N70-38009

Emergency earth orbital escape device

[NASA-CASE-MSC-13281] c 31 N72-18859

WATER MANAGEMENT

Water management system and an electrolytic cell therefor Patent

[NASA-CASE-MSC-10960-1] c 03 N71-24718

Solar-powered pump

[NASA-CASE-NPO-13567-1] c 44 N76-29701

WATER POLLUTION

Compact solar still Patent

[NASA-CASE-XMS-04533] c 15 N71-23086

Bacterial contamination monitor

[NASA-CASE-GSC-10879-1] c 14 N72-25413

Method and automated apparatus for detecting coliform organisms

[NASA-CASE-MSC-16777-1] c 51 N80-27067

Combined air and water pollution control system

[NASA-CASE-NST-00007-1] c 45 N91-14662

WATER QUALITY

Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points

[NASA-CASE-MSC-16841-1] c 34 N79-24285

Rapid, quantitative determination of bacteria in water --- adenosine triphosphate

[NASA-CASE-GSC-12158-1] c 51 N83-27569

Method for detecting coliform organisms

[NASA-CASE-ARC-11322-1] c 51 N83-28849

WATER RECLAMATION

Recovery of potable water from human wastes in below-G conditions Patent

[NASA-CASE-XLA-03213] c 05 N71-11207

Water system virus detection

[NASA-CASE-MSC-16098-1] c 51 N79-10693

Water separator

[NASA-CASE-XMS-01295-1] c 37 N79-21345

Whole body cleansing agent

[NASA-CASE-MSC-21589-1] c 54 N91-16566

WATER RESOURCES

Radar, target for remotely sensing hydrological phenomena

[NASA-CASE-LAR-12344-1] c 43 N80-18498

WATER SPLITTING

Static feed water electrolysis subsystem development

[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271

WATER TEMPERATURE

Differential temperature transducer Patent

[NASA-CASE-XAC-00812] c 14 N71-15598

WATER TREATMENT

Water management system and an electrolytic cell therefor Patent

[NASA-CASE-MSC-10960-1] c 03 N71-24718

Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge

[NASA-CASE-ARC-10643-1] c 25 N75-12087

Iodine generator for reclaimed water purification

[NASA-CASE-MSC-14632-1] c 54 N78-14784

Water system virus detection

[NASA-CASE-MSC-16098-1] c 51 N79-10693

Simultaneous treatment of SO₂ containing stack gases and waste water

[NASA-CASE-MSC-16258-1] c 45 N79-12584

Process for purification of waste water produced by a Kraft process pulp and paper mill

[NASA-CASE-NPO-13847-2] c 85 N79-17747

Ozonation of cooling tower waters

[NASA-CASE-NPO-14340-1] c 45 N80-14579

Reverse osmosis membrane of high urea rejection properties --- water purification

[NASA-CASE-ARC-10980-1] c 27 N80-23452

Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer

[NASA-CASE-NPO-14001-1] c 27 N81-14076

Sewage sludge additive

[NASA-CASE-NPO-13877-1] c 45 N82-11634

Method for treating wastewater using microorganisms and vascular aquatic plants

[NASA-CASE-NSTL-10] c 45 N84-12654

Combined air and water pollution control system

[NASA-CASE-NST-00007-1] c 45 N91-14662

Purification system

[NASA-CASE-MSC-21584-1] c 25 N91-24362

Regenerable biocide delivery unit

[NASA-CASE-MSC-21763-1] c 51 N91-25570

WATER VAPOR

Vapor pressure measuring system and method Patent

[NASA-CASE-XMS-01618] c 14 N71-20741

Cell and method for electrolysis of water and anode

[NASA-CASE-MSC-16394-1] c 28 N81-24280

Geodetic distance measuring apparatus

[NASA-CASE-GSC-12609-2] c 36 N83-29681

Wet atmospheric generation apparatus

[NASA-CASE-MFS-28177-1] c 35 N91-21496

WATER WAVES

Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks

[NASA-CASE-NPO-13862-1] c 35 N79-10391

Oceanic wave measurement system

[NASA-CASE-MFS-23862-1] c 48 N80-18667

WATERPROOFING

Glass-to-metal seals comprising relatively high expansion metals

[NASA-CASE-LEW-10698-1] c 37 N74-21063

Elevated waterproof access floor system and method of making the same

[NASA-CASE-ARC-11363-1] c 31 N87-16918

WATERWAVE ENERGY CONVERSION

Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

WAVE AMPLIFICATION

Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919

WAVE DIFFRACTION

Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140

WAVE FRONT RECONSTRUCTION

Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567

WAVE FRONTS

Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924

WAVE GENERATION

Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

WAVE INTERACTION

Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568

WAVE PROPAGATION

Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559

WAVE REFLECTION

Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965

WAVE RESISTANCE

Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145

WAVE SCATTERING

Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562

WAVEFORMS

Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658

WAVEGUIDE ANTENNAS

Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148

WAVEGUIDE FILTERS

High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606

WAVEGUIDE WINDOWS

Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808

WAVEGUIDES

Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676

Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552
Method for non-destructive estimation of waveguide directional coupler dimensions
[NASA-CASE-NPO-18454-1-CU] c 33 N92-17865

WAVELENGTHS

Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202

WAVES

Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

WEAR

Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N91-32167

WEAR INHIBITORS

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540

WEAR RESISTANCE

Pretreatment of lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423

WEATHERPROOFING

Weatherproof helix antenna Patent
[NASA-CASE-KKS-08485] c 07 N71-19493

WEAVING

Integral fill yarn insertion and beatup method
[NASA-CASE-LAR-14046-1] c 31 N92-11219
Woven angle ply fabric and apparatus and method for producing such fabrics
[NASA-CASE-LAR-14048-1] c 31 N92-11220

WEBS (SHEETS)

Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495

Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

WEBS (SUPPORTS)

Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499

WEDGES

Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121

WEIGHT (MASS)

Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

WEIGHT INDICATORS

Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558

WEIGHT MEASUREMENT

Automatic force measuring system Patent
[NASA-CASE-XLA-02605] c 14 N71-10773
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294

WEIGHTLESSNESS

Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
Zero gravity training means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223
Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c 14 N73-27378
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385
Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919

Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024
Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723
Method for waste collection and storage
[NASA-CASE-MSC-21025-2] c 54 N91-14724
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
Whole body cleansing agent
[NASA-CASE-MSC-21589-1] c 54 N91-16566
Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-21493
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-3] c 35 N91-21495
Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747
Treadmill for space flight
[NASA-CASE-MSC-21752-1] c 54 N92-17910

WEIGHTLESSNESS SIMULATION

Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Harness assembly Patent
[NASA-CASE-MFS-14671] c 05 N71-12341
Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
Weightlessness simulation system and process
[NASA-CASE-ARC-11846-1] c 14 N87-25344
Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793

WELD STRENGTH

Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683

WELD TESTS

Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464

WELDED JOINTS

Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257
Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
Apparatus and method for explosive bonding to edge of flyer plate
[NASA-CASE-LAR-14096-1] c 31 N91-31476

WELDED STRUCTURES

Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265

WELDING

Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736

Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868

WELDING MACHINES

Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
Automatic welding speed controller Patent
[NASA-CASE-XMF-01730] c 15 N71-23050
Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798
Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362
High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N91-28363

WET CELLS

Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407

WET SPINNING

Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562

WETTING

Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
Whole body cleansing agent
[NASA-CASE-MSC-21589-1] c 54 N91-16566

WHEATSTONE BRIDGES

Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N91-28546

WHEELS

Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N91-13734

WHISKER COMPOSITES

Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490

WHISKERS (CRYSTALS)

Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922

WICKS

Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541

WIDE ANGLE LENSES

Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857
Wide field strip-imaging optical system
[NASA-CASE-NPO-18146-1-CU] c 74 N92-17892

WIDEBAND COMMUNICATION

Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604

WINCHES

Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599

WIND DIRECTION

Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742

WIND EFFECTS

Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626

Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280

WIND MEASUREMENT

Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460
Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753

WIND PROFILES

Wind velocity probing device and method Patent
[NASA-CASE-XLA-02081] c 20 N71-16281

WIND SHEAR

CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280

WIND TUNNEL APPARATUS

Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732
Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

WIND TUNNEL CALIBRATION

Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523

WIND TUNNEL DRIVES

Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913

WIND TUNNEL MODELS

Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591

WIND TUNNEL NOZZLES

Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129

- Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
- Improved method and apparatus for Mach number change in wind tunnel
[NASA-CASE-LAR-13548-1] c 09 N91-28175
- WIND TUNNEL TESTS**
- Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
- Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MS-C-19706-1] c 09 N78-31129
- Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
- Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
- Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884
- Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962
- Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N92-10185
- Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N92-21710
- WIND TUNNEL WALLS**
- Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
- WIND TUNNELS**
- Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
- Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969
- Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273
- Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358
- Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
- Improved method and apparatus for Mach number change in wind tunnel
[NASA-CASE-LAR-13548-1] c 09 N91-28175
- Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149
- WIND TURBINES**
- Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
- Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- WIND VELOCITY**
- Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
- Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
- WIND VELOCITY MEASUREMENT**
- Wind velocity probing device and method Patent
[NASA-CASE-XLA-02081] c 20 N71-16281
- Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
- WINDING**
- Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
- Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197
- WINDMILLS (WINDPOWERED MACHINES)**
- Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
- Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493
- Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
- Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742
- WINDOWS (APERTURES)**
- Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
- Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265
- Light transmitting window assembly
[NASA-CASE-MS-C-18417-1] c 74 N85-29750
- Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355
- WINDPOWER UTILIZATION**
- Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
- Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- WINDPOWERED GENERATORS**
- Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
- Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
- WINDSHIELDS**
- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
- WING CAMBER**
- Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551
- WING FLAPS**
- Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
- Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551
- WING PROFILES**
- Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
- Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
- WING ROOTS**
- Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154
- WING SLOTS**
- Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551
- WING TIP VORTICES**
- Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
- WING TIPS**
- Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
- Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
- Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345
- WINGS**
- Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
- Surface finishing --- for aircraft wings
[NASA-CASE-MS-C-12631-1] c 24 N77-28225
- Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
- Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
- System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
- Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
- Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
- Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
- Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
- WIRE**
- Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
- Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
- Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
- Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444
- Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
- Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
- Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
- Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
- Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
- Method of forming low cost, formable High T(subc) superconducting wire
[NASA-CASE-LEW-14676-2] c 76 N90-17454
- Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586
- Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168
- Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N91-28582
- Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N91-28727
- Low cost, formable, high T(sub c) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529
- Permanent wire splicing by an explosive joining process
[NASA-CASE-LAR-13825-1] c 31 N92-16162
- WIRE BRIDGE CIRCUITS**
- Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
- WIRE CLOTH**
- Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
- Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
- WIRE WINDING**
- Adjustable tension wire guide Patent
[NASA-CASE-XMS-02383] c 15 N71-15918
- Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
- Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
- Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
- Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539
- WIRELESS COMMUNICATION**
- Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
- RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
- WIRING**
- Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MS-C-15158-1] c 14 N72-17325
- Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420
- Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
- WOOD**
- Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756
- WOODEN STRUCTURES**
- Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
- WORDS (LANGUAGE)**
- Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
- Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
- Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
- WORK HARDENING**
- Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MS-C-19693-1] c 26 N78-24333
- WORKING FLUIDS**
- Heat pipe with dual working fluids
[NASA-CASE-ARC-10198] c 34 N78-17336
- Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368
- Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
- Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541
- Heat tube device
[NASA-CASE-KSC-11395-1-CU] c 34 N91-21473
- WORKSTATIONS**
- Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
- Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693
- WRENCHES**
- Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
- System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395
- Zero torque gear head wrench
[NASA-CASE-NPO-13059-1] c 37 N76-20480

- High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383
- WRIST**
- Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676

X

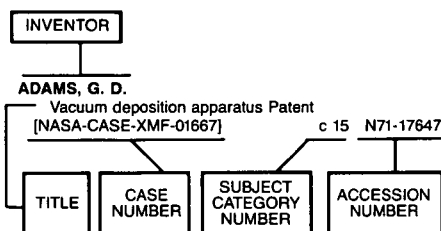
- X RAY ABSORPTION**
- Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
- X RAY ANALYSIS**
- Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N91-15519
- X RAY APPARATUS**
- Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
- X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
- X RAY DIFFRACTION**
- Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
- X RAY FLUORESCENCE**
- X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835
- X RAY IMAGERY**
- Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
- Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
- Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671
- X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835
- X RAY INSPECTION**
- Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
- Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
- X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
- X RAY IRRADIATION**
- Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples
Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
- X RAY SOURCES**
- Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
- X RAY SPECTROSCOPY**
- Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
- Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
- Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671
- X RAY TELESCOPES**
- X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
- Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866
- Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
- Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015
- Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
- Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459
- Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
- Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N90-27595
- Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
- X RAYS**
- Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
- Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461

- Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
- Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
- Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N91-15519
- Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976
- X-Y PLOTTERS**
- Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
- Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
- X-15 AIRCRAFT**
- Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
- XENON**
- Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
- XENON LAMPS**
- Optical pump and driver system for lasers
[NASA-CASE-ERC-10283] c 16 N72-25485
- Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238
- Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330
- Y**
- YAG LASERS**
- Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
- Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
- YARNS**
- Flexible pile thermal barrier insulator
[NASA-CASE-MSC-19568-1] c 34 N78-25350
- Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331
- Integral fill yarn insertion and beatup method
[NASA-CASE-LAR-14046-1] c 31 N92-11219
- Woven angle ply fabric and apparatus and method for producing such fabrics
[NASA-CASE-LAR-14048-1] c 31 N92-11220
- YAW**
- Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
- Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
- Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390
- YIELD STRENGTH**
- High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
- YLF LASERS**
- Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528
- YO-YO DEVICES**
- Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
- YOKES**
- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
- YTTERBIUM**
- Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
- YTTRIUM COMPOUNDS**
- Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N91-13500
- Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N92-21725
- Z**
- ZEOLITES**
- Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185
- Regenerative Cu/La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073
- ZINC**
- Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581

- Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699
- ZINC COMPOUNDS**
- Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
- Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532
- Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
- Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643
- Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237
- ZINC OXIDES**
- Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
- Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
- ZIRCONIUM**
- Zirconium modified nickel-copper alloy
[NASA-CASE-XMF-12245-1] c 26 N77-20201
- Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
- Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
- Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
- ZIRCONIUM CARBIDES**
- Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344
- ZIRCONIUM COMPOUNDS**
- High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489
- ZIRCONIUM OXIDES**
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
- Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N91-13500
- Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412
- Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-2] c 27 N91-32229
- Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N92-21725
- ZONE MELTING**
- Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502

NASA PATENT ABSTRACTS BIBLIOGRAPHY Section 2

Typical Inventor Index Listing



Listings in this index are arranged alphabetically by inventor. The title of the document provides the user with a brief description of the subject matter. The case number is the prime access point to patent documents. The subject category number indicates the category in Section 1 (Abstracts) in which the citation is located. The accession number denotes the number by which the citation is identified within the subject category. The titles are arranged under each inventor in ascending accession number order.

A

- AARON, JAMES**
Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563
- ABBOTT, TERENCE S.**
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466
- ABEL, I. R.**
Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095
- ABERNATHY, W. J.**
Insert facing tool
[NASA-CASE-MFS-21485-1] c 37 N74-25968
- ABHYANKAR, K. D.**
Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446
- ABRAMS, EVE**
Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N91-13734
- ABSHIRE, J. B.**
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
- ACHAR, B. N.**
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348
Metal (2) 4,4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
- ACHAR, BAPPALIGE N.**
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112

- ACORD, J. D.**
Photosensitive device to detect bearing deviation
Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
- ACRES, WILLIAM R.**
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
- ACUNA, M. H.**
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522
- ADACHI, R. R.**
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
- ADAMOVSKY, GRIGORY**
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871
- ADAMS, C. M., JR.**
Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
- ADAMS, G. D.**
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
- ADAMS, R. R.**
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
- ADAMS, W. A.**
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
- ADAMSON, A. P.**
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
- ADAMSON, M. J.**
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
- AGRAWAL, A. K.**
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
- AHL, E. L., JR.**
Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
- AHL, ELVIN L.**
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
- AHMED, SHAFFIQ**
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
- AIRTH, H. B., JR.**
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
- AISENBERG, S.**
Doppler shift system
[NASA-CASE-HQN-10740-1] c 72 N74-19310
- AJELLO, J. M.**
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
- AJIOKA, J. S.**
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
- AKAWIE, R. I.**
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
- AKKERMAN, J. W.**
Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
- ALADZHADZHIAN, SAMUEL H.**
Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660
- ALARIO, J. P.**
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N86-27593
- ALBRECHT, W. P.**
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
- ALBRIGHT, C. F.**
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140
- ALBUS, J. S.**
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
System and method for tracking a signal source
[NASA-CASE-HQN-10880-1] c 17 N78-17140
- ALCORN, G. E.**
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671
- ALDRICH, B. R.**
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750
- ALESNA, R. E.**
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
- ALEXANDER, P., JR.**
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958
- ALFORD, W. J., JR.**
Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
- ALGER, D. L.**
Deuterium pass through target
[NASA-CASE-LEW-11866-1] c 72 N76-15860
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-1] c 31 N78-17237

Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336

ALLCOCK, H. R.
Process for the preparation of polycarbonylphosphazenes
[NASA-CASE-ARC-11176-2] c 27 N81-27271
Carbonylphosphazenes and their polymers
[NASA-CASE-ARC-11176-1] c 27 N82-18389
Carbonylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

ALLEN, G. V.
Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798

ALLEN, H., JR.
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634

ALLEN, J. G., JR.
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966

ALLEN, J. H., SR.
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722

ALLEN, J. L.
Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1-CU] c 71 N85-29693
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943

ALLEN, JAMES L.
Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241
Acoustic controlled rotation and orientation
[NASA-CASE-NPO-16995-1-CU] c 71 N90-12289
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132

ALLEN, JANICE K.
Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496

ALLEN, L. D.
Method of improving heat transfer characteristics in a nucleate boiling process Patent
[NASA-CASE-XMS-04268] c 33 N71-16277

ALLEN, L. H.
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125

ALLEN, MARGARET A.
Emergency egress fixed rocket package
[NASA-CASE-MS-21332-1] c 03 N91-15142

ALLEN, R. W.
Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858

ALLEN, W. K.
Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Satellite interlace synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174

ALLEN, W. W.
Analog-to-digital converter analyzing system
[NASA-CASE-NPO-10560] c 08 N72-22166

ALLEY, V. L., JR.
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246

ALLGEIER, R. K., JR.
Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MS-12116-1] c 15 N71-17648

ALLISON, SIDNEY G.
Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170
Method of recertifying a loaded bearing member
[NASA-CASE-LAR-14168-1] c 39 N92-12302

ALLTON, CHARLES S.
Hatch cover
[NASA-CASE-MS-21356-1] c 18 N90-19278

ALPER, M. E.
Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

ALSTON, WILLIAM B.
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-6] c 23 N92-17882

ALTER, WENDY SUE
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462

ALTMAN, R. L.
Synthesis of dawsonites
[NASA-CASE-ARC-11326-1] c 25 N83-33977
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALTSHULER, T. L.
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992

AMBRUSO, A.
Gas operated actuator
[NASA-CASE-NPO-11340] c 15 N72-33477

AMEER, G. A.
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699

AMON, M.
Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393

ANACKER, K.
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408

ANAGNOSTOU, E.
Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528

ANDERS, JOHN B.
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071

ANDERSON, ALMA G., JR.
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350

ANDERSON, CHARLES H.
Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864

ANDERSON, D. L.
Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752

ANDERSON, F. A.
Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758
High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342

ANDERSON, G. D.
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272

ANDERSON, G. E.
Flexible pile thermal barrier insulator
[NASA-CASE-MS-19568-1] c 34 N78-25350
Fluid leak indicator
[NASA-CASE-MS-20783-1] c 35 N86-20756

ANDERSON, J. R.
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773

ANDERSON, J. W.
Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227

ANDERSON, K. F.
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200

ANDERSON, L. M.
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768

ANDERSON, R. A.
Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979

ANDERSON, R. E.
Automatic transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350

ANDERSON, R. F.
Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824

ANDERSON, T. O.
Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502
Ranging system Patent
[NASA-CASE-NPO-10066] c 09 N71-18598
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172
Asynchronous, multiplexing, single line transmission and recovery data system
[NASA-CASE-NPO-13321-1] c 32 N75-26195
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818
Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538

ANDERSON, W. J.
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588

ANDERSON, W. W.
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-1] c 35 N79-26372
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

ANDERSON, W. W., JR.
Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982

ANDREWS, D. G.
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551

ANDREWS, E. H., JR.
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366

ANDREWS, R. E.
Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090

ANDREWS, T. W.
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346

ANGELE, W.

- Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
- Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
- Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
- Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
- Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
- Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
- Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
- Cryogenic gyroscope housing
[NASA-CASE-MFS-21136-1] c 35 N74-18323

ANGULO, E. D.

- Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913

ANGULO, EARL D.

- Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N91-28727

ANGULUO, E. D.

- Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885

ANICICH, V. G.

- Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163

ANSELMO, V. J.

- Medical diagnosis system and method with multispectral imaging
[NASA-CASE-NPO-14402-1] c 52 N81-27783

AOYAGI, KIYOSHI

- High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914

APPEL, M. A.

- Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929

APPLEBERRY, W. T.

- Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
- Device for use in loading tension members
[NASA-CASE-MFS-21488-1] c 14 N75-24794
- Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482
- Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
- Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377

APPLER, R. L.

- Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674

APPLETON, M. W.

- Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247

ARCAND, G. M.

- Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728

ARCELLA, F. G.

- Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
- Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265

ARENS, W. E.

- Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342
- Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268

ARGOUD, M. J.

- Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
- Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706

ARIAS, A.

- Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
- Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
- Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
- Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
- Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535

ARLINE, S. B.

- Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468

ARMSTRONG, H. T.

- Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846

ARNOLD, G. D.

- System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
- System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146

ARONS, I. J.

- Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113
- Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484

ARRANCE, F. C.

- Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337

ASHBROOK, R. L.

- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
- High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248

- Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465

- Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521

- Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c 37 N74-13179

ASHBY, GEORGE C., JR.

- Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423

ASHWORTH, B. R.

- Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
- Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
- Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

ASKINS, B. S.

- Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389

ASTHEIMER, R. W.

- Multi-lobar scan horizon sensor Patent
[NASA-CASE-XGS-00809] c 21 N70-35427

ASTON, G.

- Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
- Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

ATKISSON, E. A.

- Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618

AUBLE, C. M.

- Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946

AUER, S. O.

- Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
- Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331

- Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433

- Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393

- Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529

AUGASON, GORDON C.

- Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416

AUKER, B. H.

- Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160

AUSTIN, J. G.

- Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345

AUSTIN, W. E.

- Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392

AUYEUNG, J.

- Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

AVENI, GLENN

- Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807

AVERILL, R. D.

- Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026

AVIZIENIS, A. A.

- Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633

AYLWARD, J. R.

- Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280

AYVAZIAN, R. A.

- Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
- Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

B

BABA, P. D.

- Method for making conductors for ferrite memory arrays
[NASA-CASE-LAR-10994-1] c 24 N75-13032

BABB, B. D.

- Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628
- Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656

BABCOCK, STEPHEN G.

- Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362

BABECKI, A. J.

- Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360

BACCHI, R.

- Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409

BACHLE, W. H.

- Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021

BACHTEL, FREDERICK D.

- Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556

BACK, LLOYD

- Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N92-10609

BACKES, PAUL G.

- Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N91-32509

- A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510

BACON, J. F.

- Glass compositions with a high modulus of elasticity
[NASA-CASE-HQN-10274-1] c 27 N82-29451
- High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452

- Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454

- High modulus rare earth and beryllium containing silicate glass compositions
[NASA-CASE-HQN-10595-1] c 27 N82-29455

BADIN, F. E.

- Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026

BAEHR, E. F.

- Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860

- Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806

- Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818

- Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658

- Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659

- Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

- Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
- Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
- Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
- BAER, D. A.**
Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020
- BAFFES, PAUL**
System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944
- BAFFES, PAUL THOMAS**
Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769
- BAGANOFF, D.**
Means for controlling rupture of shock tube diaphragms
Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
- BAGBY, J. P.**
Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407
- BAHIMAN, H.**
Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
- Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
- Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
- BAHM, E. J.**
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
- BAILEY, C. L., JR.**
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
- BAILEY, D. A.**
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
- BAILEY, F. J., JR.**
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
- BAILEY, G. A.**
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
- BAILEY, G. C.**
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
- BAILEY, J. W.**
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
- Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
- Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
- BAILEY, JAMES W.**
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
- Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
- Ignitability test method and apparatus
[NASA-CASE-LAR-14454-1] c 25 N91-32196
- BAILEY, M. C.**
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
- BAILEY, R. L.**
Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
- Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
- Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109
- BAIR, CLAYTON H.**
Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N92-16290
- BAKER, C. D.**
Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
- Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685
- Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
- Pressure transducer
[NASA-CASE-NPO-10832] c 14 N72-21405
- BAKER, E. H.**
Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
- BAKER, G. J.**
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
- BAKER, J. T.**
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
- BAKER, KARL W.**
Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N91-23617
- BAKER, M. E.**
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
- BAKER, R. L.**
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
- BAKER, V. D.**
Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
- BAKSTON, B.**
Apparatus for the determination of the existence or non-existence of a bonding between two members
Patent
[NASA-CASE-MFS-13686] c 15 N71-18132
- BALDWIN, L. V.**
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
- Apparatus for increasing ion engine beam density
Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
- BALES, T. T.**
Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
- Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
- Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
- BALLANTINE, T. J.**
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
- BALLARD, R. R.**
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
- BALLENTEINE, F. M., JR.**
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
- BALLOU, E. V.**
Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162
- Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
- BAMFORD, R. M.**
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
- Sealed separable connection Patent
[NASA-CASE-NPO-10064] c 15 N71-17693
- BANDINI, U.**
Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417
- BANDYOPADHYAY, PROMODE R.**
Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008
- BANK, H.**
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
- BANKS, A.**
Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569
- BANKS, B. A.**
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
- Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
- Process for glass coating an ion accelerator grid
Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
- Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
- Electromagnetic flow rate meter
[NASA-CASE-LEW-10981-1] c 35 N74-21018
- Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
- Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
- Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
- Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
- Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
- Texturing polymer surfaces by transfer casting
[NASA-CASE-LEW-13120-1] c 27 N82-28440
- Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
- Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
- Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
- Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
- Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
- BANKS, BRUCE A.**
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
- Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
- Heat transfer device
[NASA-CASE-LEW-14162-2] c 24 N91-25201
- Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N91-25296
- BANKSTON, B. F.**
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257
- Two-dimensional scanner apparatus
[NASA-CASE-MFS-25687-1] c 35 N84-22928
- Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
- BANKSTON, C. PERRY**
Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478
- BANKSTON, CLYDE P.**
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
- Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538
- BANTA, R. D.**
Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
- BARACK, W. N.**
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
- BARAONA, C. R.**
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
- BARBER, J. B.**
Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
- BARBER, PATRICK G.**
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
- Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
- BARBERA, A. J.**
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
- BARD, STEVEN**
Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
- Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385
- Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203
- Three-stage sorption type cryogenic refrigeration system and method employing heat regeneration
[NASA-CASE-NPO-18366-1-CU] c 31 N92-17674
- BARGER, R. L.**
Continuously operating induction plasma accelerator
Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
- BARISH, B.**
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
- BARKER, P.**
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234

- BARMATZ, M. B.**
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105
Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1-CU] c 71 N85-29693
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
- BARMATZ, MARTIN B.**
Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241
Stabilization and oscillation of an acoustically levitated object
[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422
Acoustic controlled rotation and orientation
[NASA-CASE-NPO-16995-1-CU] c 71 N90-12289
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
- BARNA, P. STEPHEN**
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149
- BARNES, J. R.**
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
- BARNES, NORMAN P.**
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816
Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
- BARNES, P. E.**
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
- BARNES, SCOTT P.**
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128
- BARNES, WAYNE L.**
Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817
- BARNETT, CLIFFORD J.**
Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660
- BARNETT, J. H., JR.**
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
- BARNETT, M. A.**
Furlable antenna
[NASA-CASE-NPO-13553-1] c 33 N76-32457
- BARNISKIS, W. A.**
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
- BARNIS, C. E.**
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
- BARNIS, CHRIS E.**
Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
- BARR, T. A.**
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
- BARRETT, C. A.**
Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
- BARRETT, CHARLES A.**
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303
- BARRETT, T. W.**
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585
- BARRINGTON, A. B.**
Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483
- BARRINGTON, A. E.**
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
- BARTERA, R. E.**
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330
- BARTHOLOME, D. E.**
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
- BARTMAN, RANDALL K.**
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259
- BARZA, M. J.**
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
- BASHAM, BRYAN D.**
Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741
- BASIULIS, A.**
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
- BASIULIS, D. I.**
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- BASS, A. M.**
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
- BASS, R. GERALD**
Ethynyl terminated imidothioethers and resins therefrom
[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307
- BASS, ROBERT G.**
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953
- BASTIEN, G. J.**
Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
- BATE, E. R., JR.**
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
- BATES, H. E.**
Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037
- BATHKER, D. A.**
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
- BATSCH, F. F.**
Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
- BATTE, W. G.**
Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
- BATTEN, C. E.**
Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687
- BATTERSON, S. A.**
Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329
- BATTS, C. N.**
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
- BATTS, COLOSSIE N.**
Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N87-21235
- BAUCOM, R. M.**
Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
- BAUCOM, ROBERT M.**
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
Process for application of powder particles to filamentary materials
[NASA-CASE-LAR-14231-1] c 24 N92-10070
- BAUER, H. B.**
Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902
- BAUER, STEVEN X. S.**
Active control of pressure loads using passive porosity
[NASA-CASE-LAR-14594-1] c 34 N92-17888
Passive control of pressure loads using porosity
[NASA-CASE-LAR-14547-1] c 34 N92-17909
- BAUERNSCHUB, J. P., JR.**
Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
- BAUGH, B. T.**
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
- BAUGHMAN, J. R.**
Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265
Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
- BAUMAN, A. J.**
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Molten salt pyrolysis of latex
[NASA-CASE-NPO-14315-1] c 27 N81-17261
- BAUMER, W. E.**
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
- BAXTER, R. D.**
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
- BEALE, H. A.**
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
- BEALS, DAVID C.**
Spiral lead platen robotic end effector
[NASA-CASE-LAR-13855-1] c 37 N91-14615
- BEAM, B. H.**
Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
- BEAM, R. A.**
Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
- BEAM, R. M.**
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
- BEASLEY, R. M.**
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
- BEASLEY, W. D.**
Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946

BEATTY, R. W.

Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420

BEAUREGARD, W. W.

Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427

BECK, A. F.

Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747

BECK, T. R.

Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393

BECKER, R. A.

Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599

BECKERLE, L. D.

Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871

BECKMAN, P.

Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884

BECKWITH, I. E.

Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235

BECKWITH, R. M.

Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907

BEEHM, J. M.

Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627

BEEKMAN, S. W.

Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101

BEEN, J. F.

Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488

BEER, R.

Cooled echelle grating spectrometer
[NASA-CASE-NPO-14372-1] c 35 N80-26635

BEGGS, J. M.

Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126

BEGGS, JAMES M.

Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4-2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042

BEHMER, H.

High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383

BEHM, J. W.

Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784

BEHUN, VAUGHN D.

Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N91-32511

BEITLER, R. S.

Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

BEJCZY, A. K.

Terminal guidance sensor system
[NASA-CASE-NPO-14521-1] c 37 N81-27519

Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921

BEJCZY, ANTA K.

Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805

BEJCZY, ANTA K.

Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268

BELANGER, R. J.

Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048

BELASCO, N.

Medical subject monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

BELCHER, J. G., JR.

Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441

BELCHER, JEWELL G., JR.

Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795

BELEW, H. W., JR.

Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262

BELEW, R. R.

Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496

Docking structure for spacecraft
[NASA-CASE-MFS-20863] c 31 N73-26876

Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844

Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829

Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944

Variable length strut with longitudinal compliance and locking capability
[NASA-CASE-MFS-25907-1] c 37 N85-34401

Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589

Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738

BELW, ROBERT

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

BELL, A.

Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229

BELL, BRAD N.

Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340

BELL, C. H.

Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889

Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032

BELL, D. III

Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569

BELL, V. L.

Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263

Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205

Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261

BELL, V. L., JR.

Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4,5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235

Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238

Dosimeter for high levels of absorbed radiation
[NASA-CASE-XLA-03645] c 14 N71-20430

BELL, VERNON L.

Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198

BELLAVIA, J., JR.

Thermal barrier pressure seal
[NASA-CASE-MSC-18134-1] c 37 N81-15363

BELLMAN, D. R.

Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057

BELT, J. L.

Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

BELTZ, MARK W.

Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198

BEMENT, L. J.

Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959

Totally confined explosive welding
[NASA-CASE-LAR-10941-1] c 37 N74-21057

Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326

Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364

Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

BEMENT, LAURENCE J.

Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359

Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161

Improving the performance of blasting caps
[NASA-CASE-LAR-13832-1] c 28 N91-28444

Apparatus and method for explosive bonding to edge of flyer plate
[NASA-CASE-LAR-14096-1] c 31 N91-31476

Ignitability test method and apparatus
[NASA-CASE-LAR-14454-1] c 25 N91-32196

Permanent wire splicing by an explosive joining process
[NASA-CASE-LAR-13825-1] c 31 N92-16162

BENEDICT, R. O.

Transient augmentation circuit for pulse amplifiers
[NASA-CASE-XNP-01068] c 10 N71-28739

BENEDICTO, J. S. J.

Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951

Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730

BENGTON, R. D.

Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060

BENHAM, J. W.

Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286

BENNETT, G. W.

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

BENNING, J. D.

Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650

Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865

Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148

BENNINGTON, DONALD R.

Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713

BENZ, F. J.

Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413

BENZ, H. A.

Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416

BERATAN, DAVID N.

Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808

BERDAHL, C. M.

Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461

BERATAN, DAVID N.

Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808

BERDAHL, C. M.

Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461

BERATAN, DAVID N.

Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808

BERDAHL, C. M.

Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461

BERATAN, DAVID N.

Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

BERATAN, DAVID N.

Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

BERATAN, DAVID N.

Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

BERATAN, DAVID N.

Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

BERATAN, DAVID N.

Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

BERATAN, DAVID N.

Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

BERATAN, DAVID N.

Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

BERATAN, DAVID N.

Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

BERATAN, DAVID N.

Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

BERATAN, DAVID N.

Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

BERATAN, DAVID N.

Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

- BERKMAN, S.**
Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
- BERKOPEC, F. D.**
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
- BERMAN, P. A.**
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
- BERNARDIN, R. M.**
Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
- BERNATOWICZ, D. T.**
Method of making silicon solar cell array
[NASA-CASE-LEW-11069-1] c 44 N74-14784
- BERNIUS, MARK T.**
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795
- BERNSEN, B.**
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
- BERNSTEIN, A. J.**
Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
- BERRIER, B. L.**
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
- BERRY, ANTHONY**
Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545
- BERRY, E. H.**
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
- BERRY, MAGGIE L.**
Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756
- BERRY, R. F., JR.**
Ultrasonic angle beam standard reflector
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- BERRY, ROBERT F., JR.**
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756
- BERSON, L. A.**
Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581
- BESSETTE, R. J.**
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
- BESWICK, A. G.**
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
- BEUYUKIAN, C. S.**
Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- BEYLIK, C. M.**
Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068
- BHAGAT, P. K.**
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578
- BHANDARI, PRADEEP**
Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457
- BHASIN, KUL B.**
Monolithic mm-wave phase shifter using optically activated superconducting switches
[NASA-CASE-LEW-14878-1] c 74 N91-13996
- BHAT, B. N.**
Method of growing composites of the type exhibiting the Soret effect
[NASA-CASE-MFS-22926-1] c 24 N77-27187
- BHAT, BALAKRISHNA T.**
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
- BHATT, RAMAKRISHNA T.**
Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
- Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538
- BHIWANDKER, N. C.**
Method for making conductors for ferrite memory arrays
[NASA-CASE-LAR-10994-1] c 24 N75-13032
- BIBBO, C.**
Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376
- BICKLER, D. B.**
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
- BICKLER, DONALD B.**
Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153
- BICKLER, T. C.**
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
- BICKNELL, T. J.**
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
- BIDDLE, ALAN P.**
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
- BIEHL, A. J.**
Hypervelocity gun
[NASA-CASE-XLE-03186-1] c 09 N79-21084
- BIENIEK, T.**
Metal containing polymers from cyclic tetrameric phenylphosphonitilamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
- BIER, M.**
Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397
- BIKLE, P. F.**
System for use in conducting wake investigation for a wing in flight
[NASA-CASE-FRC-11024-1] c 02 N80-28300
- BILBRO, J. W.**
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
- BILDERBACK, R. R.**
Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
- BILES, J. E., JR.**
High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
- BILL, R. C.**
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
Method of fabricating an abrasible gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
- BILLINGHAM, J.**
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
- BILLINGS, C. R.**
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
- BILLINGSLEY, F. C.**
Electro-optical scanning apparatus Patent Application
[NASA-CASE-NPO-11106] c 14 N70-34697
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
- BILLMAN, K. W.**
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
- Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
- BILOW, M.**
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
- BINCKLEY, W. G.**
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
- BINGHAM, G. J.**
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
- BIRCHENOUGH, A. G.**
Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243
Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385
- BIRD, J. D.**
Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380
- BIRD, R. G.**
Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581
- BISHOP, O. L.**
Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
- BISHOP, R. E.**
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
- BISHOP, WILLIAM L.**
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197
- BLACK, D. H.**
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
- BLACK, I. A.**
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
- BLACK, J. M.**
Full wave modulator-demodulator amplifier apparatus
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308
Voltage regulator for battery power source
[NASA-CASE-FRC-10116-1] c 33 N79-23345
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
- BLACK, S. H.**
Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
- BLACK, W. W.**
Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
- BLACKABY, J. R.**
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
- BLACKBURN, L. B.**
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
- BLACKBURN, LINDA B.**
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621
- BLACKSTOCK, T. A.**
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
- BLAIR, G. R.**
Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
- BLAISE, H. T.**
Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
- BLAKELY, ROBERT L.**
High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132
- BLAKESLEE, RICHARD J.**
Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661
- BLALOCK, TRAVIS**
Rapid quantification of an internal property
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941

BLALOCK, TRAVIS N.

- Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
- Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621
- BLANCHARD, W. S., JR.**
Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
- Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
- Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008
- High lift aircraft
[NASA-CASE-LAR-11252-1] c 05 N75-25914
- BLANCHE, J. F.**
Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
- BLAND, C.**
Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
- BLAND, W. M., JR.**
Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285
- BLANKENSHIP, C. P.**
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
- Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182
- BLAZE, C. J.**
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
- BLESS, J. J.**
Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
- BLOCH, J. T.**
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
- BLOOMFIELD, H. S.**
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
- BLOSSER, E. R.**
Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
- BLOSSER, MAX L.**
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072
- BLOUNT, D. H.**
Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
- BLOUNT, DALE H.**
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974
- Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112
- BLUCK, RAYMOND M.**
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
- Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
[NASA-CASE-LAR-13562-2] c 24 N91-25199
- BLUE, J. W.**
Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681
- Method of producing I-123
[NASA-CASE-LEW-11390-2] c 25 N76-27383
- Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379
- Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
- BLUM, P.**
Rock sampling
[NASA-CASE-XNP-10007-1] c 46 N74-23068
- Rock sampling
[NASA-CASE-XNP-09755] c 46 N74-23069
- BLUME, H. C.**
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
- BLUME, HANS-JUERGEN C.**
Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206
- BLUMRICH, J. F.**
Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159
- Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654

- Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354
- Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
- Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912
- Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125
- BLUTINGER, B.**
Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
- BLYMILLER, E. R.**
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
- BOATRIGHT, W. B.**
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262
- BOCKWOLDT, W. H.**
Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
- BOEDY, D. D.**
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
- BOEHM, J.**
Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196
- BOEHME, R. J.**
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
- BOER, K. W.**
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
- BOEX, M. W.**
Filter regeneration systems
[NASA-CASE-MSC-14273-1] c 34 N75-33342
- BOGNER, R. S.**
Storage battery comprising negative plates of a wedge shaped configuration
[NASA-CASE-NPO-11806-1] c 44 N74-19693
- BOGUSZ, F. J.**
Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
- BOJES, R. D.**
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421
- BOISSEVAIN, A. G.**
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
- BOLOTIN, GARY S.**
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
- BOLT, C. A., JR.**
Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
- BOLTON, P. N.**
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle
[NASA-CASE-KSC-11064-1] c 31 N81-14137
- BONAZZA, WALTER J.**
Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270
- BOND, H. H., JR.**
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
- BOND, ROBERT W.**
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
- BOND, W. W.**
Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
- BONEBRIGHT, MARK E.**
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- BONISCH, F. H.**
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
- BONN, J. L.**
Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
- BONO, P.**
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
- BOODLEY, L. E.**
Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
- BOOM, R. W.**
Stable superconducting magnet
[NASA-CASE-XMF-05373-1] c 33 N79-21264

BOOTH, F. W.

- Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
- Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
- Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
- Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
- Air removal device
[NASA-CASE-XLA-08914] c 15 N73-12492
- Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
- Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
- Air removal device
[NASA-CASE-XLA-08914-2] c 25 N82-21269
- BOOTH, R. A.**
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
- BORELLI, M. T.**
Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
- BOROSON, H. R.**
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
- BORSIG, E.**
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
- BOSCO, G. B., JR.**
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
- BOSHERS, W. A.**
Battery testing device
[NASA-CASE-MFS-20761-1] c 44 N74-27519
- Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
- Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
- BOSTON, HAROLD G.**
Diphenylmethane-containing dianhydride and polyimides prepared therefrom
[NASA-CASE-LAR-14487-1] c 27 N82-11200
- BOSTON, R. E.**
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
- BOTTOMS, D. J.**
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
- BOULDIN, D. L.**
Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
- BOURKE, D. G.**
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
- BOUSMAN, W. G.**
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
- BOWER, K. F.**
Buffered analog converter
[NASA-CASE-KSC-10397] c 08 N72-25206
- BOWLES, KENNETH J.**
Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
- BOXWELL, D. A.**
Acoustically swept rotor
[NASA-CASE-ARC-11106-1] c 05 N80-14107
- BOYLE, J. C.**
Balance torque meter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
- BOYLE, J. V., JR.**
Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
- Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
- BOZAJIAN, J. M.**
Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
- BOZEMAN, RICHARD J., JR.**
Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N91-14607
- BRABBS, THEODORE A.**
Multi-heat addition turbine engine
[NASA-CASE-LEW-15094-1] c 07 N91-23180
- BRADFELD, S. P., III**
Unbalanced quadruphase demodulator
[NASA-CASE-MSC-14840-1] c 32 N77-24331
- BRADLEY, JAMES G.**
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351

- BRADLEY, JIMMY D.**
Power saw
[NASA-CASE-MSC-21469-1] c 37 N91-31655
- BRADLEY, R. H.**
Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859
A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
- BRADY, J. C.**
Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
- BRAGG, BOBBY J.**
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537
- BRAINARD, W. A.**
Improved refractory coatings
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
- BRANDENBURGER, G. H.**
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
- BRANDHORST, H. W., JR.**
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859
High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
Solar cell assembly
[NASA-CASE-LEW-11549-1] c 44 N77-19571
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
- BRANDHORST, HENRY W., JR.**
Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614
- BRANDON, CRAIG A.**
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052
- BRANSTETTER, J. R.**
Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
- BRANTLEY, J. W.**
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
- BRANTLEY, L. W., JR.**
Solar energy absorber
[NASA-CASE-MFS-22743-1] c 44 N76-22657
Solar energy trap
[NASA-CASE-MFS-22744-1] c 44 N76-24696
Thermal energy storage system
[NASA-CASE-MFS-23167-1] c 44 N76-31667
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
- BRASCHWITZ, J. M.**
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
- BRAUN, W.**
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
- BRAWNER, C. C.**
Specific wavelength colorimeter
[NASA-CASE-MSC-14081-1] c 35 N74-27860
- BRAWNER, E. L.**
Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015
- BREALT, R. P.**
System for the measurement of ultra-low stray light levels
[NASA-CASE-MFS-23513-1] c 74 N79-11865
- BREAZEALE, M. A.**
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
- BRECKENRIDGE, R.**
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
- BRECKENRIDGE, R. A.**
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
- BRECKENRIDGE, WILLIAM C.**
Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924
- BRECKINRIDGE, J. B.**
Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
Interferometer
[NASA-CASE-NPO-14448-1] c 74 N81-29963
Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
- BREED, L. L.**
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
- BREED, L. W.**
Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237
- BREEZE, R. K.**
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202
- BREGMAN, B. J.**
Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230
- BREINER, CHARLES A.**
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
- BREITWIESER, R.**
High current electrical lead
[NASA-CASE-LEW-10950-1] c 33 N74-27683
- BREJCHA, A. G., JR.**
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
- BRESHEARS, R. R.**
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
- BREUER, D. R.**
Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294
- BREY, H.**
Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
- BRICKER, R. W.**
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
- BRIGHT, C. W.**
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
- BRINDLEY, PAMELA K.**
Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N91-27175
- BRINDLEY, W. J.**
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-2] c 27 N91-32229
- BRINDLEY, WILLIAM J.**
Oxidation resistant coatings for titanium alloys and titanium alloy matrix composites
[NASA-CASE-LEW-15155-1] c 27 N91-26375
- BRINICH, P. F.**
Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
- BRINKS, B. J.**
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
- BRISKEN, A. F.**
Automatic transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
- BRISSENDEN, R. F.**
Cable arrangement for rigid tethering Patent
[NASA-CASE-XLA-02332] c 32 N71-17609
- BRITCLIFFE, MICHAEL J.**
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
- BRITT, T. O.**
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
- BRITZ, W. J.**
Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
- BROCK, F. J.**
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391
- BROCKMAN, M. H.**
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
- BRODER, J. D.**
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Method of making silicon solar cell array
[NASA-CASE-LEW-11069-1] c 44 N74-14784
Covered silicon solar cells and method of manufacture
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
- BRODERICK, J. C.**
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
- BRODERICK, R. F.**
Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
- BRODIE, S. B.**
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
- BROKL, S. S.**
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
- BROMAN, C. L.**
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
- BROOK, MARK**
Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661
- BROOKS, A. D.**
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
- BROOKS, D. E.**
Method for separating biological cells
[NASA-CASE-MFS-23883-1] c 51 N80-16715
- BROOKS, G. W.**
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
- BROOKS, J. D.**
Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
- BROOKS, R. A.**
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
- BROOKS, R. L.**
Fluid sample collection and distribution system
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
- BROOM, MARY B.**
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
- BROSH, A.**
Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364
- BROUSSARD, P. H.**
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
- BROUSSARD, R.**
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
- BROWN, C. E.**
G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
- BROWN, CHRISTOPHER WILLIAM**
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498
- BROWN, D.**
Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
- BROWN, D. W.**
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680

BROWN, DAVID R.

- Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270

BROWN, E. L.

- Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290

BROWN, G. A.

- Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205

BROWN, G. V.

- Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Magnetocaloric pump
[NASA-CASE-LEW-11672-1] c 37 N74-27904
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

BROWN, H. H.

- Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114

BROWN, J. W.

- Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725

BROWN, JAMES L.

- Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384
Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340

BROWN, K. H.

- Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429

BROWN, KENNETH G.

- Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270

BROWN, N. D.

- Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540

BROWN, P. A.

- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

BROWN, R. F.

- Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180

BROWN, R. H.

- Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

BROWN, R. L.

- Imbalanced, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162

BROWN, R. M.

- Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741

BROWN, RICHARD F.

- Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867

BROWN, W. E., III

- Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432

BROWNING, R. E.

- Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376

BROYLES, H. F.

- Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524

BROYLES, H. H.

- Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584

BRUCE, M. M., JR.

- Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421

BRUCE, R. A.

- Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Air removal device
[NASA-CASE-XLA-08914] c 15 N73-12492
Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
Air removal device
[NASA-CASE-XLA-08914-2] c 25 N82-21269

BRUNSON, J. W.

- Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359

BRUNSTEIN, S. A.

- Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214

BRYAN, C. J.

- Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
System for sterilizing objects
[NASA-CASE-KSC-11085-1] c 54 N81-24724

BRYAN, CHARLES F., JR.

- Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828

BRYAN, M. B.

- Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612

BRYAN, THOMAS C.

- Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200

BRYANT, E. L.

- Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138

BRYANT, TIMOTHY D.

- Vapor fragrances
[NASA-CASE-LAR-13680-1] c 35 N87-25561

BRYANT, W. H.

- Digital controller for a Baum folding machine
[NASA-CASE-LAR-10688-1] c 37 N74-21056

BRYSON, R. P.

- Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321

BUBE, K. R.

- Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752

BUCHANAN, R. I.

- Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475

BUCHHELE, D. R.

- Optical torque meter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818

BUCHHOLD, T. A.

- Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969

BUCHMILLER, L. D.

- Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550

BUCK, GREGORY M.

- Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770

BUCKLEY, D. H.

- Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046

BUCKLEY, J. D.

- One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

BUCKLEY, JOHN D.

- Method of attaching strain gauges to various materials
[NASA-CASE-LAR-13797-1] c 35 N88-30108
Method of preforming and assembling superconducting circuit elements
[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490

BUEHLER, KURT D.

- Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786

BUEHLER, M. G.

- Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187

BUEHLER, MARTIN G.

- Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679
Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810

BUGG, CHARLES E.

- Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815

BUGGA, RATNAKUMAR V.

- Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538
Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478

BUHLER, G. V.

- Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615

BULLINGER, H. B.

- Photoetching of metal-oxide layers
[NASA-CASE-ERC-10108] c 06 N72-21094

BUNCE, R. C.

- Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113

BUNIN, B. L.

- Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630

BUNKER, E. R., JR.

- Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246

BUNKER, J. W.

- Slide release mechanism
[NASA-CASE-MSC-20080-1] c 37 N85-30334

BUONCRISTIANI, A. MARTIN

- Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150

BURCH, C. F.

- Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

BURCH, J. L.

- Two speed drive system
[NASA-CASE-MFS-20645-1] c 37 N74-23070
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443

BURCHAM, F. W.

- Multiple pure tone elimination strut assembly
[NASA-CASE-FRC-11062-1] c 71 N82-16800

BURCHAM, T. W.

- Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043

BURCHER, E. E.

- Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Transmitting and reflecting diffuser
[NASA-CASE-LAR-10385-2] c 70 N74-13436
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
Transmitting and reflecting diffuser
[NASA-CASE-LAR-10385-3] c 74 N78-15879
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904

BURDIN, C.

- Phase-locked servo system
[NASA-CASE-MFS-22073-1] c 33 N75-13139

BURGESS, A. S.

- Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671

BURGETT, F. A.

- Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545

- BURK, S. M., JR.**
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
- BURKE, J. R.**
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
- BURKE, JAMES D.**
Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769
- BURKHART, J. A.**
Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
- BURKLEY, R. A.**
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
- BURKS, H. D.**
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
- BURKS, HAROLD D.**
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
- BURKS, R. E., JR.**
Infusible silazane polymer and process for producing same
[NASA-CASE-XMF-02526-1] c 27 N79-21190
- BURNETT, J. E.**
Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
- BURNHAM, D. C.**
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
- BURNS, E. A.**
Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
- BURNS, F. P.**
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
- BURNS, M. R., JR.**
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
- BURNS, R. H.**
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119
- BURNS, R. K.**
Protected isotope heat source
[NASA-CASE-LEW-11227-1] c 73 N75-30876
- BURROUS, C. N.**
Temperature compensated light source using a light emitting diode
[NASA-CASE-LAR-10467-1] c 09 N73-14214
- BURROWS, D. L.**
Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
- BURTON, D. R.**
Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
- BURTON, W. A.**
Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
- BUSEMANN, A.**
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
- BUSH, H. G.**
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Lightweight structural columns
[NASA-CASE-LAR-12095-1] c 31 N81-25258
Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
- BUSH, HAROLD G.**
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614
- Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
[NASA-CASE-LAR-13562-2] c 24 N91-25199
- BUSHNELL, D. M.**
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
- BUSHNELL, DENNIS M.**
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587
- BUSHONG, WILTON E.**
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
- BUSSEY, WALTER S.**
Multi-adjustable headband
[NASA-CASE-KSC-11322-1] c 54 N89-29953
- BUTLER, D. H.**
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
- BUTLER, J. M.**
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
- BUTLER, L. V.**
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
- BUTMAN, S.**
Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
- BUTMAN, S. A.**
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
- BUTNER, C. L.**
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
- BUZZARD, R. J.**
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
- BUZZARD, ROBERT J.**
Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712
- BYER, ROBERT L.**
Cladding for transverse-pumped solid-state laser
[NASA-CASE-NPO-17355-1-CU] c 36 N91-17360
- BYERS, D. C.**
Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
- BYNUM, B. G.**
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941
- BYRD, A. W.**
Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Thermoelectric power system
[NASA-CASE-MFS-22002-1] c 44 N76-16612
- BYRD, J. D.**
Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
- BYRD, N. R.**
Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105
- BYRNE, F.**
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
- Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
Digital servo controller
[NASA-CASE-KSC-10769-1] c 33 N74-29556
Common data buffer system
[NASA-CASE-KSC-11048-1] c 62 N81-24779
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
Method and apparatus for operating on compacted PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513
- BYVIK, C. E.**
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
- BYVIK, CHARLES E.**
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150

C

- CABLE, C. W.**
Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
- CABLE, W. L.**
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly
[NASA-CASE-GSC-11560-1] c 33 N74-20861
- CACOSSA, R. A.**
Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
- CAGLIOSTRO, D. E.**
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
- CAGLIOSTRO, DOMENICK E.**
Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737
- CAHILL, K. J.**
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
- CAHILL, N. E.**
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
- CAIRO, F. J.**
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
- CALANDRO, J. N.**
Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091
- CALCO, FRANK S.**
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
Quick action clamp
[NASA-CASE-LEW-14887-1] c 37 N91-27561
Three point lead screw positioning apparatus
[NASA-CASE-LEW-15216-1] c 37 N92-17678
- CALFO, F. D.**
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276
- CALLAHAN, D. E.**
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
- CALOMINO, ANTHONY M.**
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540
- CALVERT, H. F.**
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
- CALVERT, J. A.**
Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
- CALVERT, JOHN A.**
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
- CAMACHO, S. L.**
Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
- CAMARDA, C. J.**
Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568

CAMARDA, CHARLES J.

- Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072

CAMBRA, J. M.

- Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929

CAMBRIDGE, VIVIEN

- Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691

CAMBRIDGE, VIVIEN J.

- Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976

CAMERON, J. R.

- Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MS-C-14276-1] c 52 N77-14737

CAMP, D. W.

- Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460

CAMP, E. L.

- Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244

CAMPBELL, B. A.

- Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620

CAMPBELL, C. C., JR.

- Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812

CAMPBELL, C. W.

- Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305

CAMPBELL, D. H.

- Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123

CAMPBELL, D. R.

- Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

CAMPBELL, F. D.

- Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462

CAMPBELL, G. E.

- Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420

CAMPBELL, G. W.

- Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

CAMPBELL, J. G.

- Multislot film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942

CAMPBELL, J. G.

- Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132

CAMPBELL, R. A.

- Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466

CAMPBELL, R. A.

- Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439

CAMPBELL, R. A.

- Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423

CAMPBELL, R. B., JR.

- Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493

CAMPBELL, SCOTT R.

- Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590

CAMPBELL, T. G.

- Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247

- Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947

CAMPEN, C. F., JR.

- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245

CANCRO, C. A.

- Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317

- Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435

- Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311

- Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236

CANICATTI, C. L.

- Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521

CANNING, T. N.

- Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896

- Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578

- Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093

- Bimetallic fluid displacement apparatus
[NASA-CASE-ARC-10441-1] c 35 N74-15126

- High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

CANTOR, C.

- Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159

- Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782

- Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379

CANTRELL, J. H., JR.

- Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572

CANTRELL, JOHN H.

- Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170

- Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182

CANTRELL, JOHN H., JR.

- Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653

- Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914

CANVEL, H.

- Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102

CARLETTE, R. K.

- Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199

CAPPS, J. E.

- Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192

CAPUTO, MICHAEL

- Portable dynamic fundus instrument
[NASA-CASE-MS-C-21675-1] c 52 N91-13865

CARDEN, JAMES R.

- Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795

CAREN, R. P.

- Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725

CARL, C.

- Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149

- Method and apparatus for a single channel digital communications system
[NASA-CASE-NPO-11302-2] c 32 N74-10132

- Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887

CARL, G. R.

- Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137

CARLE, C. E.

- Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479

CARLE, G. C.

- Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

CARLISLE, T. E.

- Method and apparatus for controllably heating fluid Patent
[NASA-CASE-XMF-04237] c 33 N71-16278

CARLSON, A. W.

- Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390

CARLSON, H. W.

- Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243

CARLSON, R. L.

- Flow diverter valve and flow diversion method
[NASA-CASE-HON-00573-1] c 37 N79-33468

CARLSON, W. C. A.

- Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628

CARMIN, D. L., JR.

- Anti-log composition
[NASA-CASE-MS-C-13530-2] c 23 N75-14834

CARMODY, R. J.

- Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651

CARO, E. R.

- High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285

- Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

CARO, EDWARD R.

- Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270

CARON, P. R.

- Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173

- Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206

CARPINI, T. D.

- Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415

CARR, W. F.

- Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489

CARRAWAY, DEBRA L.

- Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759

CARRAWAY, J. B.

- Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625

CARRENO, VICTOR A.

- Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863

CARROLL, W. F.

- Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772

CARSLEY, R. B.

- CAM controlled retractable door latch
[NASA-CASE-MS-C-20304-1] c 37 N82-31690

CARSON, J. W.

- Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065

CARSON, L. M.

- PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405

- Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

CARSON, P. R.

- Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722

CARSON, W. N., JR.

- Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608

CARTER, A. F.

- Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267

- Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661

CARTER, DANIEL C.

- Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

- Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209

- Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242

- X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835

- Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815

- Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N91-23933

- Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388

CARTER, EDWARD L.

- Magnetic drive coupling
[NASA-CASE-MS-C-21171-1] c 37 N88-23973

CARTER, J. M.

- Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290

CARTER, W. K.

- Emergency earth orbital escape device
[NASA-CASE-MS-C-13281] c 31 N72-18859

CARUSO, A. J.

- Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483

CARUSO, V. P.

- Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454

- CARVER, V. C.**
Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
- CASANOVA, EDGAR J.**
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515
- CASE, M. C.**
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
- CASEY, L. O.**
Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
- CASH, W. H., JR.**
Pulse transducer with artifact signal attenuator
[NASA-CASE-FRC-11012-1] c 52 N80-23969
- CASHION, K. D.**
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
- CASON, R. L.**
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
- CASSIDY, PATRICK E.**
Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N91-27220
- CASTLE, K. D.**
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
- CASTLE, KENT D.**
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627
- CASTLEMAN, K. R.**
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
- CASTLES, STEPHEN H.**
Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578
- CATLAW, T. G.**
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
- CAUDILL, L. O.**
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
- CAVALIER, AL**
Rapid quantification of an internal property
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
- CAVALIER, ALBERT R.**
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621
- CECCON, H. L.**
Optical pump and driver system for lasers
[NASA-CASE-ERC-10283] c 16 N72-25485
- CELLIER, A.**
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
- CEPOLLINA, F. J.**
Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
- CERIMELE, CHRISTOPHER J.**
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N91-13483
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N92-21999
- CERINI, D. J.**
Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636
Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
- CERVENKA, P. O.**
External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362
- CHAI, A. T.**
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
- CHALSON, HOWARD E.**
Multi-adjustable headband
[NASA-CASE-KSC-11322-1] c 54 N89-29953
- CHAMBERLAIN, F. R.**
Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c 14 N72-22441
- System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
- CHAMBERS, A. B.**
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
- CHAMIS, C. C.**
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
- CHAN, CHUNG K.**
Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785
Joule Thomson refrigerator
[NASA-CASE-NPO-17143-1-CU] c 31 N89-14351
- CHAN, P. C. F.**
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
- CHANDLER, J. A.**
Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16080
Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
- CHANDLER, JOSEPH A.**
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703
- CHANDLER, W. A.**
Cryogenic storage system Patent
[NASA-CASE-XMS-04390] c 31 N70-41871
- CHANEY, R. E.**
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
- CHANG-DIAZ, FRANKLIN R.**
Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465
- CHANG, C. C.**
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
- CHANG, CHI-YUNG**
Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
- CHANG, FRANKLIN R.**
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279
- CHANG, JAW J.**
Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713
- CHAO, J. I.**
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
- CHAO, TIEN-HSIN**
Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301
Real-time image difference detection using a polarization rotation spatial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305
Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N91-13888
Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N91-32925
- CHAPMAN, C. P.**
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
- CHAPMAN, JOHN J.**
Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N91-28546
- CHAPMAN, R. M.**
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
- CHAPPELLE, E. W.**
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
Rapid, quantitative determination of bacteria in water
[NASA-CASE-GSC-12158-1] c 51 N83-27569
- CHARLES, J. F.**
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
- CHARLESTON, A.**
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
- CHARLTON, K. W.**
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
- CHARNOSKY, A. J.**
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
- CHASE, E. W.**
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
- CHASE, W. D.**
Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280
Full color hybrid display for aircraft simulators
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
- CHAU, S.**
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
- CHEATHAM, D. C.**
Spacecraft docking and alignment system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
- CHEN, B. C. J.**
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
- CHEN, C. J.**
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
- CHEN, D. Y.**
Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
- CHEN, T. S.**
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
High performance mixed bismide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
- CHEN, TIMOTHY S.**
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304

- Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
- Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
- Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
- CHEN, W.**
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
- CHEN, W. S.**
Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
- CHENG, C. H.**
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
- Perfluoro (imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
- CHENG, D. Y.**
Reversed cowl flap inlet thrust augmentor
[NASA-CASE-ARC-10754-1] c 07 N75-24736
- System for measuring Reynolds in a turbulently flowing fluid
[NASA-CASE-ARC-10755-2] c 34 N76-27517
- System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
- Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
- CHENG, LI-JEN**
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
- Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118
- Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
- Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-17675
- CHERDAK, A. S.**
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
- CHERN, S. S.**
Chemical vapor deposition reactor
[NASA-CASE-NPO-13650-1] c 25 N79-28253
- Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
- CHERNOFF, R.**
Frequency translating phase conjugation circuit for active retrodirective antenna array
[NASA-CASE-NPO-14536-1] c 32 N81-14185
- CHERNOFF, R. C.**
Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210
- CHESTNUTT, D.**
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
- CHEW, MENG-SANG**
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184
- Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N91-28580
- CHI, K.**
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119
- CHIAO, R. Y.**
Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291
- Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
- CHIH, SAH**
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
- CHILDRESS, J. D.**
Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

- CHILDS, J. H.**
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
- Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
- CHILENSKI, J. J.**
Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
- CHILTON, R. G.**
Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
- Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
- CHIOA, R. Y.**
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
- Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
- CHISEL, D. M.**
Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
- CHISHOLM, WILLIAM L.**
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
- CHONG, C. F.**
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
- CHOW, E. Y.**
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
- CHOW, EDWARD**
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
- CHOWNING, D.**
Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859
- CHREITZBERG, A. M.**
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
- CHRISTENSEN, W. W.**
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
- CHRISTIANSON, ROLLIN C.**
Variable orifice flow regulator
[NASA-CASE-MSC-21549-1] c 34 N91-27504
- CHRISTMAN, L. M.**
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922
- CHRISTOPHER, P. A.**
Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059
- CHRISTY, C. L., JR.**
Intusible silazane polymer and process for producing same
[NASA-CASE-XMF-02526-1] c 27 N79-21190
- CHU, H. P.**
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- CHU, T. L.**
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
- Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
- CHUANG, CHUN-HUA**
Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230
- CHUBB, D. L.**
Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
- CHUBB, DONALD L.**
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
- Small particle selective emitter
[NASA-CASE-LEW-14731-1] c 44 N91-13802
- Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424
- Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037
- CHUMLEY, J. F.**
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
- CHURCHWARD, REX A.**
Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026
- CHUTJIAN, A.**
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877

- CHUTJIAN, A. N.**
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
- CHUTJIAN, ARA**
Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660
- Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661
- Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795
- Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
- Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813
- CIEPLUCH, C. C.**
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
- Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
- CINTRON, NITZA M.**
Intranasal scolopamine preparation and method
[NASA-CASE-MSC-21858-1] c 52 N92-11628
- CISSELL, R. E.**
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
- CISZEK, T. F.**
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
- Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
- CLAING, R. G.**
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
- CLANCY, JOHN P.**
Linear force device
[NASA-CASE-MSC-20549-2] c 35 N88-24927
- CLAPP, W. M.**
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
- CLARK, C. E.**
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
- CLARK, F. L.**
Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
- Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475
- CLARK, H. K.**
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
- CLARK, I. O.**
Ampoule sealing apparatus and process
[NASA-CASE-LAR-12847-1] c 33 N83-16633
- CLARK, J. R.**
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
- CLARK, K. H.**
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
- Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
- Electrical self-aligning connector
[NASA-CASE-MFS-25211-2] c 33 N84-14423
- Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
- Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
- Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
- CLARK, R. K.**
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
- CLARK, R. L.**
Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
- CLARK, R. T.**
Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
- CLARK, RONALD K.**
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- CLARKE, D. R.**
Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487

CLARKE, ROBERT

EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879

CLATTERBUCK, C. H.

Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
Process for making RF shielded cable connector
assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

CLAUS, R. O.

Ultrasonic transducer with Gaussian radial pressure
distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282

CLAUSS, R. C.

Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
Circulator having quarter wavelength resonant post and
parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
Maser for frequencies in the 7-20 GHz range
[NASA-CASE-NPO-11437] c 16 N72-28521
Refrigerated coaxial coupling
[NASA-CASE-NPO-13504-1] c 33 N75-30430
Reflected-wave maser
[NASA-CASE-NPO-13490-1] c 36 N76-31512
Dielectric-loaded waveguide circulator for cryogenically
cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350

CLAWSON, G. T.

Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019

CLAY, D. R.

Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

CLAY, F. P., JR.

Ionization vacuum gauge with all but the end of the ion
collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482

CLELAND, E. L.

Gas diffusion liquid storage bag and method of use for
storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749

CLEMENS, G. W., JR.

Deep space monitor communication satellite system
Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813

CLEMENS, P. W.

Device for configuring multiple leads
[NASA-CASE-MFS-22133-1] c 33 N74-26977

CLEMENT, W. G.

Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995

CLEMENTS, P. A.

System for stabilizing cable phase delay utilizing a
coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927

CLEMMONS, D. L., JR.

Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617

CLEMMONS, J. I., JR.

Instrument for determining coincidence and elapse time
between independent sources of random sequential
events
[NASA-CASE-LAR-12531-1] c 35 N83-29651

CLEMMONS, JAMES I., JR.

Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385

CLEMONS, J. M.

Method of bonding plasticized elastomer to metal and
articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Process for producing tris (n-methylamino)
methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280

CLEMONS, JOHNNY M.

Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491

CLEVELAND, G. J.

Medical subject monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

CLEVENSON, S. A.

Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

CLICKNER, R. E., JR.

Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258

CLIFF, R. A.

Data processor having multiple sections activated at
different times by selective power coupling to the sections
Patent
[NASA-CASE-XGS-04767] c 08 N71-12494

Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602

Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525

SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171

Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040

CLIFF, W. C.

Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753

CLINE, R. W.

Method and apparatus for optically monitoring the
angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304

CLOTFELTER, W. N.

Apparatus for the determination of the existence or
non-existence of a bonding between two members
Patent
[NASA-CASE-MFS-13686] c 15 N71-18132

Device for measuring the ferrite content in an austenitic
stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257

Method for measuring biaxial stress in a body subjected
to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511

CLOUGH, L. G.

Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181

CLOYD, R. A.

Space probe/satellite ejection apparatus for
spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609

Space probe/satellite ejection apparatus for
spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

CLOYD, RICHARD A.

Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333

COBB, WILLIAM E.

Thermally isolated deployable shield for spacecraft
[NASA-CASE-MFS-28524-1] c 18 N91-25167

COBIN, J. C.

Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162

COCCA, F. J.

Method and apparatus for detecting surface ions on
silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457

CODY, JOSEPH C.

System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613

COE, C. F.

Electronic scanning pressure measuring system and
transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934

COE, H. H.

High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490

COE, P. L., JR.

Supersonic transport
[NASA-CASE-LAR-11932-1] c 05 N78-32086

COFER, W. R., III

Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1-CU] c 35 N86-29174

COFFINBERRY, G. A.

Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106

Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467

Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403

Apparatus for improving the fuel efficiency of a gas
turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029

Method for improving the fuel efficiency of a gas turbine
engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

COHEN, D.

Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435

COHEN, E. A.

Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408

COHEN, M. F.

Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138

COHEN, M. M.

Space station architecture, module, berthing hub, shell
assembly, berthing mechanism and utility connection
channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751

COHEN, MARC M.

Elevated waterproof access floor system and method
of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918

Space station architecture, module, berthing hub, shell
assembly, berthing mechanism and utility connection
channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266

Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860

COHEN, N. S.

Nitramine propellants
[NASA-CASE-NPO-14103-1] c 28 N78-31255

COHEN, R. A.

A method for selective gold diffusion of monolithic silicon
devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148

Method and apparatus for stable silicon dioxide layers
on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769

COHN, E. M.

Rechargeable battery which combats shape change of
the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699

COHN, R. B.

Acoustical transducer calibrating system and
apparatus
[NASA-CASE-FRC-10060-1] c 14 N73-27379

Adapter for mounting a microphone flush with the
external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975

COHN, S. B.

Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

COKER, L. R.

Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649

COLBURN, M. E.

Automatic instrument for chemical processing to detect
microorganism in biological samples by measuring light
reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011

COLE, H. A., JR.

Method and apparatus for measuring the damping
characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440

COLE, M. A.

System and method for moving a probe to follow
movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346

COLE, P. T.

Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978

System for recording and reproducing pulse code
modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042

Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995

Helical recorder arrangement for multiple channel
recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224

COLE, STEVEN W.

Method and apparatus for frequency spectrum
analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-10125

COLEMAN, A. D.

Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126

COLES, W. D.

Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752

Method of fabricating a twisted composite
superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571

COLLIER, L.

Garments for controlling the temperature of the body
Patent
[NASA-CASE-XMS-10269] c 05 N71-24147

COLLIN, E. E.

Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405

COLLINS, D. D.

Simultaneous treatment of SO₂ containing stack gases
and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584

COLLINS, D. F., JR.

Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465

COLLINS, E. R.

- Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480
- Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906
- System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703

COLLINS, E. R., JR.

- Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443
- Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722
- Active hold-down for heat treating
[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704

COLLINS, EARL R., JR.

- Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034
- Passively activated prehensile digit for a robotic end effector
[NASA-CASE-NPO-16766-1-CU] c 37 N89-13785
- High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425
- Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587
- Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583
- Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423
- Electrorepulsive actuator
[NASA-CASE-NPO-17684-1-CU] c 33 N92-22042

COLLINS, V. G.

- Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207

COLLINS, W. A.

- Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174

COLLINS, W. A.

- Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595

COLOMBO, GERALD V.

- Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570

COLONY, J. A.

- Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443

COMPANION, JOHN

- Rapid quantification of an internal property
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941

COMPANION, JOHN A.

- Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519

COMPTON, L. E.

- Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562

COMPTON, L. E.

- Lamina transducer coupler and method of making
[NASA-CASE-LAR-14361-1] c 71 N91-16707

CONANT, J. E.

- Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621

CONANT, J. E.

- Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449

CONE, C. D., JR.

- Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410

CONLEY, JOSEPH M.

- Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411

CONN, J. H.

- Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445

CONN, J. H.

- Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769

CONGIER, C. C.

- Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226

CONIGLIO, G. V.

- Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027

CONLEY, JOSEPH M.

- Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351

CONN, J. H.

- Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

CONNELL, E. W.

- Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546

CONNELL, JOHN W.

- Polynamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847

- Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814

- Polynamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667

- Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545

- Polyimidoazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954

- N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419

- Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N91-23237

- Ethynyl terminated imidothioethers and resins therefrom
[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307

- Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066

- Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

- Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c 33 N79-10339

- Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568

- Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778

- Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284

- Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939

- Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711

- Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899

- Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629

- Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294

- Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861

- Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696

- Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-LAR-14998-1] c 32 N83-18975

- Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

- Method for detecting pollutants
[NASA-CASE-LAR-11405-1] c 45 N76-31714

- Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990

- Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

- Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853

- Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221

- Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116

- Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255

- Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021

- Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135

- Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390

- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097

- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125

- Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446

- Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436

- Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129

- Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709

- Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085

- High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411

- Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276

- Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371

- Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

- Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039

- Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039

- Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

- Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016

- Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

- Absorbent product to absorb fluids
[NASA-CASE-MSC-18223-1] c 24 N82-29362

- Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

- Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N91-26543

- Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410

- Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374

- Cascade plug nozzle
[NASA-CASE-LAR-11674-1] c 07 N76-18117

- Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131

- Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540

- Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423

- Schlieren system for visualizing the flow within a pipe of circular cross-section
[NASA-CASE-LAR-13944-1] c 35 N92-11336

- Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420

- Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431

- Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725

- Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571

- COUCH, L. M.**
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
- COUCH, R. H.**
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
- COULBERT, C. D.**
Multislit film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
- COULSON, C. E.**
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
- COULTRIP, R. H.**
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
- COUR-PALAIS, BURTON G.**
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N92-15114
- COUVILLON, L. A., JR.**
Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208
Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Method and apparatus for a single channel digital communications system
[NASA-CASE-NPO-11302-2] c 32 N74-10132
- COWAN, J. J.**
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
- COWDIN, K. T.**
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
- COWELL, T. E.**
Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
- COX, J. A.**
Analog-to-digital converter
[NASA-CASE-MSC-13110-1] c 08 N72-22163
- COYNER, J. V.**
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
- CRABILL, N. L.**
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
- CRAIG, G. D.**
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
- CRAIG, H. M.**
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
- CRAIG, R. A.**
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298
- CRAIGHEAD, N. D., II**
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
- CRAMER, P. W., JR.**
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
- CRANE, J. ALLEN**
Compliant walker
[NASA-CASE-GSC-13348-2] c 52 N91-29714
- CRAWFORD, D. W.**
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
- CRAWFORD, DANIEL J.**
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713
- CRAWFORD, R.**
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
- CRAWFORD, R. F.**
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
- CRAWFORD, W. E.**
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
- CREASY, W. K.**
Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
- CREE, D.**
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
- CREE, R. F.**
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922
- CREEDON, J. F.**
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
- CREEL, T. R., JR.**
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
- CREPEAU, P. C.**
Flexible, repairable, portable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881
- CRESS, S. B.**
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
- CRESSEY, J. R.**
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
- CREW, JOHN H., JR.**
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
- CREWS, J. H., JR.**
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
- CREWS, JEANNE LEE**
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N92-15114
- CREWS, JOHN H., JR.**
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430
- CRIBB, H. E.**
Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
Protective suit having an audio transceiver Patent
[NASA-CASE-KSC-10164] c 07 N71-33108
Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117
- CROFT, R. M.**
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585
- CROFTS, D. E.**
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
- CROONQUIST, A. P.**
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
- CROSS, JOHN H.**
Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N91-13860
- CROSS, JON**
Method for anisotropic etching in the manufacture of semiconductor devices
[NASA-CASE-MSC-21631-1] c 75 N91-32947
- CROSSLEY, EDWARD A.**
Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N91-32511
- CROSSLEY, EDWARD A., JR.**
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
- CROSWELL, W. F.**
Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
- Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
- CROUCH, C. E.**
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
- CROUCH, H. W.**
Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
- CROUCH, R. K.**
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Reusable thermal cycling clamp
[NASA-CASE-LAR-12868-1] c 37 N85-21651
- CROUCH, ROGER K.**
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
- CROW, R. B.**
Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315
- CROWELL, R. T.**
System and method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
- CRUM, G. W.**
Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014
- CRUMPLER, J. F.**
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
- CRUMPLER, W. B.**
All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
- CRUTCHER, J. E.**
Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
- CUBBISON, R. W.**
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
- CUBLEY, H. D.**
Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056
- CUDDIHY, E. F.**
Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
- CUDDIHY, EDWARD F.**
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014
- CULLER, V. H.**
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
- CULLINGFORD, HATICE S.**
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803
Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MSC-21936-1] c 25 N92-19486
- CULOTTA, R. F.**
Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358
- CULP, D. H.**
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
- CUNNINGHAM, ALLEN R.**
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692

CUNNINGHAM, H. R.

Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779

CUNNINGHAM, J. W.

Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Automatic thermal switch
[NASA-CASE-GSC-12553-1] c 34 N83-28356

CUNNINGHAM, R. E.

Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333

CUNNINGHAM, WILLIAM C.

Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689

CUOMO, FRANK W.

Fiber optic microphone
[NASA-CASE-LAR-14402-1-CU] c 74 N91-15874

CURLANDER, JOHN C.

Pipeline synthetic aperture radar data compression
utilizing systolic binary tree-searched architecture for
vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595

CURREN, A. N.

Ion sputter textured graphite
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

CURRIE, J. R.

Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Transistor servo system including a unique differential
amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Induction motor control system with voltage controlled
oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
Multi-channel temperature measurement amplification
system
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Solar energy control system
[NASA-CASE-MFS-25287-1] c 44 N82-18686
Photoelectric detection system
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055

CURRIE, JAMES R.

Cylindrical surface profile and diameter measuring tool
and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959

CURRIE, R. E., JR.

Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502

CURRY, J. E.

Method of producing alternating ether siloxane
copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905

CURRY, K. C.

Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445

CURRY, KENNETH C.

Electrorepulsive actuator
[NASA-CASE-NPO-17684-1-CU] c 33 N92-22042

CURRY, R. E.

Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643

CURTIS, D. L.

Life support system
[NASA-CASE-MSC-12411-1] c 05 N72-20096

CYGNAROWICZ, T. A.

System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694

CZARCINSKI, E. A.

Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624

D**DABNEY, R. W.**

Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877

DABNEY, RICHARD

Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861

DABNEY, RICHARD W.

Standard remote manipulator system docking target
augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200

DAEGES, J. J.

Motor run-up system
[NASA-CASE-NPO-13374-1] c 33 N75-19524

DAHLM, W. K.

Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753

DAILED, J. J.

Multi-purpose wind tunnel reaction control model
block
[NASA-CASE-MSC-19706-1] c 09 N78-31129

DAILEY, C. C.

Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Method of and means for testing a glancing-incidence
mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880

DALE, W. J.

Method of fabricating an article with cavities
[NASA-CASE-LAR-10318-1] c 31 N74-18089
Bonding method in the manufacture of continuous
regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260

DALELIO, G. F.

Synthesis of polymeric schiff bases by schiff-base
exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
Direct synthesis of polymeric schiff bases from two
amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Azine polymers and process for preparing the same
Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
Synthesis of polymeric schiff bases by reaction of acetals
and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
Aromatic diamine-aromatic dialdehyde high molecular
weight Schiff base polymers prepared in a monofunctional
Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740

DALY, W. M.

Fault tolerant clock apparatus utilizing a controlled
minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504

DAME, J. M.

High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383

DAMERON, C. E.

Instrument for measuring potentials on two dimensional
electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

DAMMIG, A. H., JR.

Capacitive tank gaging apparatus being independent of
liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442

DANCHENKO, V.

Radiation hardening of MOS devices by boron
[NASA-CASE-GSC-11425-1] c 76 N74-20329
Radiation hardening of MOS devices by boron
[NASA-CASE-GSC-11425-2] c 76 N75-25730

DANE, D. H.

Harness assembly Patent
[NASA-CASE-MFS-14671] c 05 N71-12341
Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
Sprag solenoid brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Orthotic arm joint
[NASA-CASE-MFS-21611-1] c 54 N75-12616
Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460

DANELIS, J. V.

Indomethacin-antihistamine combination for gastric
ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

DANGLE, E. E.

Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980

DANIELS, A.

Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574

DANIELS, H. J.

Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986

DANIELS, JULIA G.

Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491

DANSKIN, J. H.

Fuel injection pump for internal combustion engines
Patent
[NASA-CASE-MSC-12139-1] c 28 N71-14058

DARCEY, R. J.

Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621

DARGO, DAVID R.

Integrated photo-responsive metal oxide semiconductor
circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271

DARR, J., JR.

Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254

DARROW, W. E., JR.

Collapsible nozzle extension for rocket engines
Patent
[NASA-CASE-MFS-11497] c 28 N71-16224

DASGUPTA, K.

Dual purpose optical instrument capable of
simultaneously acting as spectrometer and
diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491

DASTOOR, M. N.

Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045

DAUD, T.

Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Low defect, high purity crystalline layers grown by
selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922

DAUD, TAHER

Method for growing low defect, high purity crystalline
layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
High band gap 2-6 and 3-5 tunneling junctions for silicon
multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399

DAVARIAN, FARMAZ

Antimultipath communication by injecting tone into null
in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511

DAVENPORT, ARTHUR K.

High effectiveness contour matching contact heat
exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132

DAVID-MALIG, M. A.

Method and tool for machining a transverse slot about
a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319

DAVID, R. M.

Insulated electrocardiographic electrodes
[NASA-CASE-MSC-14339-1] c 05 N75-24716

DAVIDS, L. H.

Guidance and maneuver analyzer Patent
[NASA-CASE-XMF-09572] c 14 N71-15621

DAVIDSON, A. C.

Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640

DAVIDSON, G. A.

Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389

DAVIDSON, J. K.

Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225

DAVIDSON, J. R.

Error correction method and apparatus for electronic
timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357

DAVIDSON, J. S. W.

Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815

DAVIES, W. D. T.

Correlation type phase detector
[NASA-CASE-GSC-11744-1] c 33 N75-26243

DAVIS, A. J.

Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616

DAVIS, B. K.

Spectral method for monitoring atmospheric
contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871

DAVIS, W. D. T.

Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
Solar energy power system
[NASA-CASE-MFS-21628-1] c 44 N75-32581

DAVIS, W. D. T.

Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675

- DAVIS, C. CALVIN**
Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N91-32511
- DAVIS, D. C.**
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
- DAVIS, D. P.**
Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
- DAVIS, DENNIS D.**
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243
- DAVIS, E. J.**
Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
- DAVIS, E. S.**
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
- DAVIS, J. G., JR.**
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
- DAVIS, J. P.**
Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228
- DAVIS, J. W.**
Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
- DAVIS, L. P.**
Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
- DAVIS, N. S.**
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
- DAVIS, PATRICIA**
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
- DAVIS, PATRICIA P.**
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270
- DAVIS, R. C.**
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
- DAVIS, RANDALL C.**
Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786
- DAVIS, W. T.**
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
Missile rolling tail brake torque system
[NASA-CASE-LAR-12751-1] c 15 N84-16231
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
- DAVIS, WILLIAM T.**
Device for quickly sensing the amount of O₂ in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025
- DAVISON, E. H.**
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
- DAVISON, H. W.**
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
- DAWN, F. S.**
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
- Lightweight electrically-powered flexible thermal laminate
[NASA-CASE-MS-12662-1] c 33 N79-12331
Absorbent product to absorb fluids
[NASA-CASE-MSC-18223-1] c 24 N82-29362
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758
- DAWN, FREDERIC S.**
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498
Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091
- DAWSON, REGINALD**
Closed-loop motor control using high-speed fiber optics
[NASA-CASE-MSC-21806-1] c 74 N92-17863
- DAY, J. L.**
Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
- DAY, R. M.**
Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
- DAYAN, V. H.**
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
- DEA, J. Y.**
Constant-output atomizer
[NASA-CASE-MSC-25631-1] c 34 N84-12406
- DEADMORE, D. L.**
Method of protecting a surface with a silicon-slurry/aluminide coating
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Silicon-slurry/aluminide coating
[NASA-CASE-LEW-13343] c 26 N83-31795
- DEAN, WILLIAM G.**
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817
- DEATON, E. T., JR.**
Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
- DEBNAM, W. J. J.**
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
- DEBNAM, W. J., JR.**
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Ampoule sealing apparatus and process
[NASA-CASE-LAR-12847-1] c 33 N83-16633
Reusable thermal cycling clamp
[NASA-CASE-LAR-12868-1] c 37 N85-21651
- DEBNAM, WILLIAM J., JR.**
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
- DEBOO, G. J.**
Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420
- DECARLO, F. S.**
Failure detection and control means for improved drift performance of a gimbal platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
- DECKER, A. J.**
High powered arc electrodes
[NASA-CASE-LEW-11162-1] c 33 N74-12913
- DEDOLPH, R. D.**
Rotary plant growth accelerating apparatus
[NASA-CASE-ARC-10722-1] c 51 N75-25503
- DEERKOSKI, L. F.**
Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
- Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
- DEFIGUEIREDO, RUI J. P.**
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317
- DEFURIA, R. R.**
Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465
- DEGEER, M. D.**
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
- DEGRASSE, R. W.**
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
- DEININGER, WILLIAM D.**
High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489
- DEIS, B. C.**
Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
- DEL CASALE, L. A.**
Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
- DEL CURTO, B.**
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
- DEL DUCA, A.**
Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
- DELA FUENTE, HORACIO M.**
Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492
- DELANO, C. B.**
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
- DELA PLAIN, R. W.**
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
- DELATEUR, L. A.**
Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859
- DELGREGO, D. J.**
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
- DELLACORTE, CHRISTOPHER**
Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-27244
- DELUCA, J. J.**
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
- DELVIGS, P.**
Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
Curing agent for polyepoxides and epoxy resins and composites cured therewith
[NASA-CASE-LEW-13226-1] c 27 N81-17260
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
- DELVIGS, PETER**
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566
- DEMING, J. W.**
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
Rapid, quantitative determination of bacteria in water
[NASA-CASE-GSC-12158-1] c 51 N83-27569
- DEMOGENES, C.**
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
- DEMOREST, K. E.**
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984

- DEMPSEY, T. K.**
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445
- DENACI, D. E.**
Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
- DENEFF, D. E.**
Television camera video level control system
[NASA-CASE-MS-18578-1] c 32 N85-21427
- DENNIS, DALE V.**
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
- DEO, N.**
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
- DEQUAY, LAURENCE**
Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609
- DERESPINIS, SILVIO F.**
Sun shield
[NASA-CASE-MS-20162-1] c 37 N87-17036
- DERING, V. G.**
Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
- DERR, L. J.**
Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260
Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818
- DESCAMP, V. A.**
Filter regeneration systems
[NASA-CASE-MS-14273-1] c 34 N75-33342
- DESTESE, J. G.**
Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646
- DETLING, J. R.**
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
- DETWEILER, H. K.**
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
- DEUTSCH, LESLIE J.**
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
- DEVINE, D. L.**
Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420
- DEVINE, E. J.**
Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
- DEWHIRST, D. L.**
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
- DEWITT, R. L.**
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
- DEYOUNG, ANEMARIE**
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
- DEYOUNG, R. J.**
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204
- DEZERN, JAMES F.**
Polyimides containing amide and perfluoroisopropyl connecting groups
[NASA-CASE-LAR-14608-1] c 27 N92-17676
- DI LOSA, V. J.**
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
- DIAMOND, D. D.**
Stator rotor tools
[NASA-CASE-MS-16000-1] c 37 N78-24544
- DIAMOND, R. M.**
Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
- DIBATTISTA, J. D.**
Determining particle density using known material Hugoniot curves
[NASA-CASE-LAR-11059-1] c 76 N75-12810
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
- DICK, G. JOHN**
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596
- DICKENS, L. E.**
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
- DICKERSON, G. E.**
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
- DICKERSON, GEORGE E.**
Method of inseting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197
Process for bonding elastomers to metal
[NASA-CASE-LAR-13645-1] c 27 N91-28424
- DICKEY, DUANE P.**
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
- DICKINSON, R. M.**
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
- DIETRICH, F. J.**
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
- DILL, W. P.**
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MS-16777-1] c 51 N80-27067
- DILLARD, P. A.**
Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
- DILLON, R. F., JR.**
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
- DIMEFF, J.**
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent
[NASA-CASE-XAC-00086] c 09 N70-33182
Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16098
Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
Chromato-fluorographic drug detector
[NASA-CASE-ARC-10633-1] c 25 N74-26947
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
- Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector
[NASA-CASE-ARC-10631-1] c 74 N76-20958
Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323
Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
- DIMPAULT-DARCY, ERIC C.**
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MS-21428-1] c 33 N91-14537
- DINER, DANIEL B.**
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126
Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809
- DIRUSSO, E.**
Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790
- DISTEFANO, SALVADOR**
Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538
Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478
Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121
- DIVASALAR, DARIUSH**
Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523
- DIVSALAR, DARIUSH**
Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N91-25316
Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-27439
- DIX, M. G.**
Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
- DIXON, D. S.**
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MS-20622-1] c 25 N86-19413
- DIXON, G. V.**
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
- DOBIES, E. F.**
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
- DOD, L. R.**
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
- DOGGETT, R. V., JR.**
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
- DOLAND, G. D.**
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MS-14070-1] c 32 N74-32598
Phased array antenna control
[NASA-CASE-MS-14939-1] c 32 N79-11264
Random digital encryption secure communication system
[NASA-CASE-MS-16462-1] c 32 N82-31583
- DOLGIN, BENJAMIN P.**
Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767
- DOLLAND, C. R.**
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345

- Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
- Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
- DOLLYHIGH, S. M.**
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
- DOMACK, CHRISTOPHER S.**
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
- DOMAS, P. A.**
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
- DOMBROWSKI, H. G.**
Adjustable tension wire guide Patent
[NASA-CASE-XMS-02383] c 15 N71-15918
- DOMINEK, ALLEN K.**
Almond test body
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
- DONALDSON, R. W., JR.**
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
- DONALDSON, RALPH W.**
Dual mode laser velocimeter
[NASA-CASE-ARC-11834-1] c 36 N88-14350
- DONNELLY, P. C.**
Prevention of pressure build-up in electrochemical cells
Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
- DONNINI, J. M.**
Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
- DONOHUE, J. H.**
Passive dual spin misalignment compensators
[NASA-CASE-GSC-11479-1] c 35 N74-28097
- Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
- DONOVAN, B. P.**
Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
- DONOVAN, G.**
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489
- DONOVAN, R. P.**
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
- DOONG, H.**
Analog to digital converter Patent
[NASA-CASE-XLA-00670] c 08 N71-12501
- Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522
- DORNE, A.**
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
- DOROGY, WILLIAM E., JR.**
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
- Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562
- DOTSON, W. P., JR.**
Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
- DOTTS, R. L.**
Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
- Attachment system for silica tiles
[NASA-CASE-MSC-18741-1] c 27 N82-29456
- High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
- DOUGHERTY, H. B.**
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly
[NASA-CASE-GSC-11560-1] c 33 N74-20861
- DOUGHTY, R. A.**
Automatic signal range selector for metering devices
Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
- DOUGLAS, J.**
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
- DOUGLAS, J. L.**
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
- DOW, M. B.**
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
- DOW, N. F.**
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
- DOWLER, W. L.**
Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
- Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
- Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
- DOWNING, R. G.**
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
- DOWNES, W. R.**
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
- Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011
- DOYLE, J. C.**
Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
- DRAPEAU, D. F.**
Slow opening valve
[NASA-CASE-MSC-20112-1] c 37 N85-20338
- DRAPER, SUSAN L.**
Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
- DREIBACH, F. W.**
Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
- DRESHFIELD, R. L.**
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
- DRESSER, H. S.**
Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
- DREXHAGE, M. G.**
Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
- DREYFUS, M. G.**
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
- DRISCOLL, K. L.**
Means for accommodating large overstrain in lead wires
[NASA-CASE-LAR-10168-1] c 33 N74-22865
- DROST, E. J.**
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
- DRUMMOND, A. S.**
Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
- DU PONT, P. S.**
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
- DUBEY, M.**
Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
- DUBIS, DAVID**
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423
- DUBOIS, PASCALE C.**
Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541
- Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594
- DUBOIS, R. D.**
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457
- DUBUSKER, W.**
Apparatus for welding sheet material
[NASA-CASE-XMS-01330] c 37 N75-27376
- DUCKETT, J.**
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
- DUDLEY, MICHAEL R.**
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
- DUESBERG, J. D.**
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
- DUFFY, J. O.**
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
- DUFRESNE, EUGENE R.**
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
- DUGAN, REGINA E.**
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
- DUNAETZ, R. A.**
Flexible, repairable, portable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881
- DUNAVANT, J. C.**
Hot air balloon deceleration and recovery system
Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
- DUNN, J. G.**
Satellite interface synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
- DUNN, J. H.**
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
- DUNN, S. A.**
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568
- DUNN, S. T.**
Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample
Patent
[NASA-CASE-XGS-05291] c 23 N71-16341
- DUNN, T. J.**
Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
- DUNN, THOMAS J.**
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N91-23491
- Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726
- DUNN, W. F.**
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
- DUNN, W. R.**
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
- DUNNAVANT, W. R.**
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
- Process for preparation of high-molecular-weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807
- DUNNING, J. W., JR.**
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
- DUPRAW, W. A.**
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
- DURAN, E. N.**
Subminiature insertable force transducer
[NASA-CASE-NPO-13423-1] c 33 N75-31329
- Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
- DURNEY, G. P.**
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
- DUSTIN, M. O.**
Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
- Shock position sensor for supersonic inlets
[NASA-CASE-LEW-11915-1] c 35 N76-14431
- DUSTIN, MILES O.**
Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N91-23617
- DWINELL, W. S.**
System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415
- DYER, GERALD E.**
Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362
- Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602
- Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586
- Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168

E

- EASLEY, W. C.**
Resonant waveguide stark cell
[NASA-CASE-LAR-11352-1] c 33 N75-26245
- EASTERLING, M. E.**
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
- EASTERLING, M. F.**
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
- Phase-locked loop with sideband rejecting properties
Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
- Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
- Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
- Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253

EASTON, R. A.

- Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172

EATON, L. R.

- Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374

EBERHARDT, SILVIO P.

- Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974
Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N92-15620
Neural-network dedicated processor for solving competitive assignment problems
[NASA-CASE-NPO-17781-1-CU] c 60 N92-17884
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N92-22033

EBERSOLE, T. J.

- Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090

EBIHARA, B. T.

- Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489

EBIHARA, BEN T.

- Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832

EBY, R. J.

- Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829

ECKER, ANDREAS

- Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202

ECKERT, E. R. G.

- Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226

ECKLES, P. N.

- High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147

ECONOMU, M. A.

- Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
Air speed and altitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036

ECORD, G. M.

- Densification of porous refractory substrates
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates
[NASA-CASE-MSC-18736-1] c 24 N83-13172

EDDINS, T. O.

- Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353

EDELSTEIN, FRED

- Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-2] c 34 N88-23958

EDENBOROUGH, KEVIN L.

- Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374

EDLESON, S. K.

- Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897

EDMAN, C. W.

- Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610

EDWARDS, G. G.

- Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087

EDWARDS, J. W.

- Apparatus for damping operator induced oscillations of a controlled system
[NASA-CASE-FRC-11041-1] c 33 N82-18493

EDWARDS, T. R.

- Filtering device
[NASA-CASE-MFS-22729-1] c 32 N76-21366
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

EFTKHHARI, ABE

- Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

EGGER, R. L.

- Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587

EGGERS, A. J., JR.

- Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087

EGLI, ANNMARIE O.

- Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657

EGLI, P. H.

- Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487

EHL, J. H.

- Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841

EHL, JAMES H.

- Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360

EHRENFELD, D. A.

- Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329

- Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710

EICHENBRENNER, F. F.

- Hydraulic grip Patent
[NASA-CASE-XLA-05100] c 15 N71-17696

- Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136

EICHENTHAL, J.

- Anti-buckling fatigue test assembly
[NASA-CASE-LAR-10426-1] c 09 N74-19528

EICHENTHAL, J.

- Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857

EISENBERGER, I.

- Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707

EKLUND, WAYNE

- Compliant walker
[NASA-CASE-GSC-13348-2] c 52 N91-29714

EKLUND, WAYNE D.

- Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387

EL-AASSER, M. S.

- Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

ELACHI, C.

- Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427

- Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428

- Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553

- Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919

ELBER, W.

- Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000

- Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235

- Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

ELDER, N. D.

- Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693

ELIA, A. D.

- Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460

ELIASON, J. T.

- Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c 44 N77-10635

ELKINS, B. R.

- Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355

ELKINS, W.

- Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546

- Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736

ELLEMAN, D. D.

- Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516*

- Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710

Magnetic-flux pump

- [NASA-CASE-XNP-01188] c 15 N73-32361

- Material suspension within an acoustically excited resonant chamber
[NASA-CASE-NPO-13263-1] c 12 N75-24774

- Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837

- Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390

- Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c 71 N78-10837

- Method and apparatus for producing concentric hollow spheres
[NASA-CASE-NPO-14596-1] c 31 N81-33319

- Method and apparatus for producing gas-filled hollow spheres
[NASA-CASE-NPO-14596-3] c 31 N83-31896

- Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515

- Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

- Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233

- Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142

- Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943

ELLEMAN, DANIEL D.

- Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132

ELLERN, W. B.

- Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934

ELLINGSWORTH, J. R.

- Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

ELLIOTT, C. THOMAS

- Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588

ELLIOTT, D. G.

- Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929

- Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803

- Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292

- Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335

- Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282

ELLIOTT, R. L.

- Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237

- Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

ELLIS, D. R.

- Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930

ELLIS, H., JR.

- Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187

- Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336

- Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

ELLIS, S. G.

- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027

- Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043

- Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156

ELSNER, N. B.

- Stabilized lanthanum sulphur compounds
[NASA-CASE-NPO-16135-1] c 25 N83-24572

EMDE, W. D.

- Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828

EMERY, J. C.

- Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170

ENGEL, A.

- Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248

- Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330

- Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
- ENGLAND, C.**
Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643
- ENGLAR, K. G.**
Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
- ENIE, R. B.**
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
- ENRIQUEZ, E. A.**
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
- ENSTROM, R. E.**
Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
- EPERLY, WALTER L.**
Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958
- EPPS, C. H., JR.**
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
- EPSTEIN, J.**
Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037
Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
- EPSTEIN, P.**
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489
- ERB, R. B.**
Heat shield Patent
[NASA-CASE-XMS-00486] c 33 N70-33344
- ERICKSON, W. D.**
Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475
Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796
- ERNEST, J. B.**
Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
- ERPENBACH, H.**
Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
- ERRETT, D. D.**
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
- ESCHER, W. J. D.**
Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
- ESGAR, J. B.**
Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640
- ESKEW, M. H., JR.**
Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179
- ESPY, P. N.**
Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688
- ESTES, E. G.**
Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643
- ESTES, M. F.**
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
- ESTEY, R. S.**
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
- ESTRELLA, C. A.**
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Adjustable high emittance gap filler
[NASA-CASE-ARC-11310-1] c 27 N82-24339
- ETHRIDGE, E. C.**
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568
Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718
- ETHRIDGE, EDWIN C.**
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
- ETSION, I.**
Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442
- ETZEL, J. G.**
Laser measuring system for incremental assemblies
[NASA-CASE-GSC-12321-1] c 36 N82-16396
- EUBANKS, A. G.**
Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
- EULITZ, W. R.**
Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997
- EVANS, D. D.**
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
- EVANS, D. G.**
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895
- EVANS, E. H.**
Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
- EVANS, F. D.**
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
- EVANS, G. A.**
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
- EVANS, H. E.**
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
- EVANS, J.**
Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965
Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513
Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
- EVANS, J. C., JR.**
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859
High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
Solar cell collector and method for producing same
[NASA-CASE-LEW-12552-2] c 44 N79-11472
Method for fabricating solar cells having integrated collector grids
[NASA-CASE-LEW-12819-2] c 44 N79-18444
Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
- EVANS, J. M., JR.**
System and method for tracking a signal source
[NASA-CASE-HQN-10880-1] c 17 N78-17140
- EVANS, K. C.**
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
- EVANS, L. G.**
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
- EVANS, P. K.**
Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450
- EVENSEN, D. A.**
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
- EVES, JOHN W.**
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684
Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586
- EVVARD, J. C.**
Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
- EWEN, H. I.**
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
- EWERT, MICHAEL K.**
Lunar radiator shade
[NASA-CASE-MSC-21868-1] c 54 N92-11639
Lunar radiator shade
[NASA-CASE-MSC-21868-1] c 54 N92-21589
- EXTON, R. J.**
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
- EZEKIEL, F. D.**
Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465

F

- FACEMIRE, BARBARA R.**
Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
- FAETH, P. A.**
Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
- FAGET, M. A.**
Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285
Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854
Space vehicle system
[NASA-CASE-MSC-12561-1] c 18 N76-17185
- FAGG, MARY F.**
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
- FAGOT, R. J.**
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
- FAKAN, J. C.**
Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443

- FALBEL, G.**
Multi-lobar scan horizon sensor Patent
[NASA-CASE-XGS-00809] c 21 N70-35427
- FALES, C. L., JR.**
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
- FALK, W. C.**
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
- FAN, TSO Y.**
Cladding for transverse-pumped solid-state laser
[NASA-CASE-NPO-17355-1-CU] c 36 N91-17360
- FANG, P.**
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
- FANG, WAI-CHI**
Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
- FANNIN, B. B.**
System for the measurement of ultra-low stray light levels
[NASA-CASE-MFS-23513-1] c 74 N79-11865
- FANTASIA, PETER M.**
Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543
- FANTL, ANDREW J.**
Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706
- FARHOOMAND, JAM**
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567
- FARLEY, GARY L.**
Integral fill yarn insertion and beatup method
[NASA-CASE-LAR-14046-1] c 31 N92-11219
Woven angle ply fabric and apparatus and method for producing such fabrics
[NASA-CASE-LAR-14048-1] c 31 N92-11220
- FARMER, M. G.**
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
- FARMER, MOSES G.**
Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742
- FARNSWORTH, D. L.**
Phototransistor imaging system
[NASA-CASE-MFS-20809] c 23 N73-13660
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
- FARNSWORTH, F. D.**
Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026
- FARRELL, R.**
Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261
Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
- FARRIS, C. D.**
Storage battery comprising negative plates of a wedge shaped configuration
[NASA-CASE-NPO-11806-1] c 44 N74-19693
- FARTHING, W. H.**
Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
- FASSBENDER, A. G.**
Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
- FATHAUER, ROBERT W.**
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561
- FAULKNER, R. D.**
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
- FAY, R. J.**
Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460
- FEAKES, F.**
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
- FEALEY, R. D.**
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
- FEARNEHOUGH, H. T.**
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429
- FEATHERSTON, A. B.**
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
- FEDOR, J. V.**
Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
- FEDOR, OTTO H.**
Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755
- FEDORS, R. F.**
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
- FEHRENKAMP, L. G.**
Surface finishing
[NASA-CASE-MSC-12631-1] c 24 N77-28225
Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
- FEILER, C. E.**
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
- FEINBERG, P. M.**
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
- FEINSTEIN, L.**
Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464
- FEINSTEIN, S. P.**
Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357
- FELDSTEIN, C.**
Subminiature insertable force transducer
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
- FELL, D. M.**
Flexible pile thermal barrier insulator
[NASA-CASE-MSC-19568-1] c 34 N78-25350
- FELTNER, W. R.**
Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
- FENG, S. Y.**
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
- FENTRESS, C. E.**
Expanding center probe and drogue Patent
[NASA-CASE-XMS-03613] c 31 N71-16346
- FENWICK, J. R.**
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
- FERGUSON, R. E.**
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
- FERRARA, L. J.**
Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085
- FESMIRE, JAMES E.**
Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
- FESSLER, T. E.**
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
- Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
- FEWELL, L. L.**
Process for the preparation of polycarbonylphosphazenes
[NASA-CASE-ARC-11176-2] c 27 N81-27271
Carbonylcyclophosphazenes and their polymers
[NASA-CASE-ARC-11176-1] c 27 N82-18389
- FIELDS, S. A.**
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
- FIET, O. O.**
Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
- FIGGINS, D. A.**
Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374
- FIJANY, AMIR**
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805
- FILIP, G. L.**
Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
- FINCKENOR, JEFFREY**
Apparatus for joining trusses
[NASA-CASE-MFS-28545-1] c 31 N91-25306
- FINDL, E.**
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
- FINK, J. W.**
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
- FINKE, R. C.**
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
- FINKEL, MITCHELL W.**
Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679
- FINLEY, T. D.**
Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222
- FINLEY, W. R.**
Analog-to-digital converter
[NASA-CASE-MSC-13110-1] c 08 N72-22163
- FINNERTY, A. A.**
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
- FINNIE, C. J.**
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
- FISCHELL, D. R.**
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
- FISCHER, J. A.**
Adjustable tension wire guide Patent
[NASA-CASE-XMS-02383] c 15 N71-15918
- FISCHER, J. R.**
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
- FISH, D. C.**
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
- FISH, R. H.**
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
- FISH, R. M.**
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
- FISHER, A.**
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
- FISHER, TIMOTHY E.**
Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890

- FITCH, E. J.**
Modulator for tone and binary signals
[NASA-CASE-GSC-11743-1] c 32 N75-24981
- FITTING, R. C.**
Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
- FITTON, J. A., JR.**
Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
- FITZER, G. E.**
Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493
- FITZGERALD, D. J.**
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
- FITZGERALD, J. J.**
Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257
- FITZGERALD, J. W.**
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
- FITZGERALD, T. M.**
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
- FITZMAURICE, M. W.**
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
- FLAGGE, B.**
Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
- FLAHERTY, R.**
Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031
- FLAMM, D. L.**
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
- FLANAGAN, DAVID T.**
Purification system
[NASA-CASE-MSC-21584-1] c 25 N91-24362
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755
- FLANNERY, E. J.**
Method and apparatus for controllably heating fluid Patent
[NASA-CASE-XMF-04237] c 33 N71-16278
- FLATAU, C. R.**
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
- FLATTAU, T.**
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
- FLEETWOOD, C. M.**
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149
- FLEETWOOD, C. M., JR.**
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308
- FLEISCHMAN, G. L.**
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
- FLEMING, D. P.**
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
- FLETCHER, E. A.**
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
- FLETCHER, I. L.**
Satellite interlace synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
- FLETCHER, J. C.**
Heat flow calorimeter
[NASA-CASE-GSC-11434-1] c 34 N74-27859
- FLETCHER, JAMES C.**
A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492
- FLETNER, W. R.**
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
- FLIPPIN, A.**
Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552
- FLOM, YURY**
Improved superconducting bearings
[NASA-CASE-GSC-13346-1] c 37 N91-28578
- FLORES, A. L.**
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
- FLOYD, E. L.**
High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
- FODALE, ROBERT**
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356
- FOGAL, G. L.**
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385
- FOHLEN, G. M.**
Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348
Metal (2,4,4',4'',4''') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
- FOHLEN, GEORGE M.**
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
- FONG, W. S.**
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
- FONTANA, A.**
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
- FONTES, M. J.**
Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073
- FOOTE, R. H.**
Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374
- FORBES, JOHN C.**
Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817
- FORBES, S. G.**
Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
- FORD, A. G.**
Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
Speed control device for a heavy duty shaft
[NASA-CASE-NPO-14170-1] c 37 N81-15364
- FORD, F. C.**
Hypervelocity gun
[NASA-CASE-XLE-03186-1] c 09 N79-21084
- FORD, F. E.**
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
- FORD, L. B.**
Thermal reactor
[NASA-CASE-NPO-14369-1] c 44 N83-10501
- FORD, R. R.**
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
- FOREHAND, L.**
Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
- FORESTIERI, A. F.**
Method of making silicon solar cell array
[NASA-CASE-LEW-11069-1] c 44 N74-14784
Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
- FORLIFER, W. R.**
Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589
- FORMAN, R.**
Ion sputter textured graphite
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
- FORMAN, RALPH**
Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832
- FORSQREN, ROGER C.**
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N90-10415
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N92-21723
- FORSYTHE, A. K.**
Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
- FORTIER, E. P.**
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
- FORTIER, EDWARD P.**
Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499
- FORTINI, A.**
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
Heat exchanger and method of making
[NASA-CASE-LEW-12441-1] c 34 N79-13289
Heat exchanger and method of making
[NASA-CASE-LEW-12441-2] c 34 N80-24573
Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
- FOSTER, J. V.**
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
- FOSTER, L. E.**
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
- FOSTER, ROBERT E.**
Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N91-15368

FOSTER, T.

- Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
- Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

FOURNIER, JOSEPH

- EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879

FOUCH, G. L.

- Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

FOWLER, J.

- Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263

FOWLER, J. T.

- Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228

FOX, R. L.

- One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
- Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
- Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

FOX, ROBERT L.

- Method of attaching strain gauges to various materials
[NASA-CASE-LAR-13797-1] c 35 N88-30108
- Noninvasive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544

FOX, W. E.

- Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006

FRALEY, T. O.

- Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039

FRANCISCO, A. C.

- Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311

FRANCISCUS, L. C.

- Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502

FRANCISCUS, LEO C.

- Multi-heat addition turbine engine
[NASA-CASE-LEW-15094-1] c 07 N91-23180

FRANK, ARTHUR M.

- Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036

FRANK, H. A.

- Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052

FRANKE, J. M.

- Laser Doppler velocity simulator
[NASA-CASE-LAR-12176-1] c 36 N80-16321
- Direction sensitive laser velocimeter
[NASA-CASE-LAR-12177-1] c 36 N81-24422

FRANKE, JOHN M.

- Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392

FRANKLIN, C. R.

- Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492

FRANKLIN, W. J.

- Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
- Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371

FRASER, A. S.

- Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693

FRASER, WILSON M., JR.

- Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236

FRAZE, R. E.

- Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654

FRAZER, R. E.

- Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
- Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
- Strong thin membrane structure
[NASA-CASE-NPO-14021-2] c 27 N80-16163
- Apparatus for endoscopic examination
[NASA-CASE-NPO-14092-1] c 52 N80-16725
- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072

FRAZIER, DONALD O.

- Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544
- Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545

FRAZIER, M. J.

- Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461

FRECHE, J. C.

- High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
- External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
- Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
- Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026

- High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248

- Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152

- Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465

- Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415

- Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521

- Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c 37 N74-13179

- Nickel base alloy
[NASA-CASE-LEW-12270-1] c 26 N77-32280

FREDD, E. H.

- Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427

FREDRICKSON, C. A.

- Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959

FREEDMAN, L. A.

- Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427

FREEMAN, E. T.

- Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628

FREEMAN, R. S.

- Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386

FREGGERS, R. A.

- Thermal flux transfer system
[NASA-CASE-NPO-12070-1] c 28 N73-32606

FRENCH, J. R.

- Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

FRENCH, K. R.

- Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579

FRENCH, RICHARD E.

- Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689

FRENCH, J. C.

- Nickel base alloy
[NASA-CASE-LEW-10874-1] c 17 N72-22535

FRIDRICH, C. W.

- Apparatus for welding sheet material
[NASA-CASE-XMS-01330] c 37 N75-27376

FRIEDAN, H. J.

- Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694

FRIEDEL, M. V.

- Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402

FRIEDERICH, J. E.

- Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440

FRIEDLANDER, S. K.

- Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

FRIEDMAN, GARY L.

- Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776

FRIEDRICH, E. W.

- Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242

FRIICHTENICHT, J. F.

- Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386

FRIPP, A. L.

- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659

- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763

- Reusable thermal cycling clamp
[NASA-CASE-LAR-12868-1] c 37 N85-21651

FRIPP, ARCHIBALD L. JR.

- Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713

FRISBIE, H. F.

- Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490

FRITZ, W. M.

- Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550

FRITZEN, M., JR.

- Noncontaminating swabs
[NASA-CASE-MFS-18100] c 15 N72-11390

FRIZZILL, A. W.

- Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125

FROEBEL, RICHARD C.

- Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-21493

FROEHLING, S. C.

- Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213

FROST, J. D., JR.

- EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729

- Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103

- Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717

FRYE, MARK W.

- Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867

FRYER, T. B.

- Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342

- RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202

- Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326

- Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894

- Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691

FUCHS, J. C.

- Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337

FUHR, W.

- Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209

FUHRMEISTER, P. F.

- Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179

FUJIOKA, R. S.

- Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040

FUJITA, TOSHIO

- Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457

FULCHER, C. W. G.

- Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098

FULCHER, R. W.

- Low speed phaselock speed control system
[NASA-CASE-GSC-11127-1] c 09 N75-24758

FULLER, CHRIS R.

- Multi-degree of freedom, active vibration control method, and system
[NASA-CASE-LAR-14508-1-CU] c 39 N92-10202

FULLER, H. V.

- Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512

- Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063

- Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882

FULTON, D. S.

- Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

- FUNG, L. W.**
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
- FUNK, B. H., JR.**
Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
- FURCINITI, C. A.**
Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390
- FURMAN, E. R.**
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
- FURNER, R. L.**
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
- FURTSCH, T. A.**
Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-72705-1] c 25 N82-26396
- FURUMOTO, H. W.**
Optical pump and driver system for lasers
[NASA-CASE-ERC-10283] c 16 N72-25485
- FUSARO, ROBERT L.**
Pretreatment of lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423
Solid lubricants on pretreated surfaces
[NASA-CASE-LEW-14474-2] c 27 N92-11186
- FYLER, N. F.**
Very high intensity light source using a cathode ray tube
[NASA-CASE-XNP-01296] c 33 N75-27250
- FYMAT, A. L.**
Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446
High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490
Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
- G**
- GAALEMA, S. D.**
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
- GABRIEL, ANDREW K.**
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
- GABROVIC, L. J.**
Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
- GADDIS, D. H.**
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
- GADDIS, JOSEPH L.**
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052
- GADDY, E. M.**
Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
- GADE, D. W.**
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
- GAETANO, G.**
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
- GAHN, R. F.**
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Zirconium carbide as an electrocatalyst for the chromium-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- GAIER, JAMES R.**
Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
Heat transfer device
[NASA-CASE-LEW-14162-2] c 24 N91-25201
- Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289
Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025
Intercalated hybrid graphite fiber composite
[NASA-CASE-LEW-15241-1] c 24 N92-17861
- GAISER, E. E.**
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
- GALE, G. P.**
Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
- GALEN, T. J.**
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595
- GALL, PETER D.**
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
- GALLAGHER, B. D.**
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
- GALLAGHER, BRIAN D.**
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
- GALLAGHER, H. E.**
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
- GALLIMORE, FRANK H.**
Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427
- GALLO, A. J.**
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
- GALLOWAY, C. W.**
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
- GAMMELL, P. M.**
Hyperthermia heating apparatus
[NASA-CASE-NPO-14549-2] c 52 N82-33996
- GANGULI, P. S.**
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
- GARAVAGLIA, A. P.**
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915
- GARBA, J. A.**
Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068
- GARCIA, R. D.**
Radiative cooler
[NASA-CASE-NPO-15465-1] c 34 N84-22903
- GARD, L. H.**
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
- GARDNER, D. E.**
Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
- GARDNER, DALE A.**
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
- GARDNER, J. N.**
Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
- GARDNER, M. R.**
Heating and cooling system
[NASA-CASE-LAR-12393-1] c 34 N83-34221
- GARDNER, M. S.**
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
- GARDOS, M. N.**
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
- GARFEIN, A.**
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680
Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
- GARMIRE, E. M.**
Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
- Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
- GARMIRE, G.**
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
- GARNER, H. D.**
Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380
Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
- GARNER, H. DOUGLAS**
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372
- GARRAHAN, N. M.**
Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
- GARREN, J. F., JR.**
Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
- GARRETT, H.**
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
- GARRETT, STEVEN L.**
Stabilization and oscillation of an acoustically levitated object
[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236
- GARRIOTT, OWEN K.**
Nano-G research laboratory for a spacecraft
[NASA-CASE-XGS-13197-1] c 18 N91-27201
- GARWOOD, D. C.**
Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
- GARY, B. L.**
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
- GARY, BRUCE L.**
Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N91-23662
- GASPAR, MARK S.**
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422
- GASSER, M. G.**
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
- GASTON, D. H.**
Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033
- GASTON, R. P., JR.**
Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589
- GATES, D. W.**
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532
Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237
- GATES, J. D.**
Self-erecting reflector Patent
[NASA-CASE-XFG-09190] c 31 N71-16102
- GATES, L. E., JR.**
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
- GATEWOOD, J. R.**
Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761

GATEWOOD, JOHN R.

Joule Thomson refrigerator
[NASA-CASE-NPO-17143-1-CU] c 31 N89-14351

GATLIN, J. A.

Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676

Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033

GATTI, A.

Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922

GAUSE, R. L.

Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377

Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941

Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078

Manual actuator
[NASA-CASE-MFS-21481-1] c 37 N74-18127

Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864

Ergometer calibrator
[NASA-CASE-MFS-21045-1] c 35 N75-15932

GAUTHIER, M. K.

Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332

GAVALAS, G. R.

Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527

GAVIN, THOMAS R.

Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014

GAVIRA, H. E.

Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262

GAVRILLIS, T. G.

Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372

GAY, C. H., JR.

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

GDULA, W. G.

Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062

GEBBEN, V. D.

Circuit for detecting initial systole and diastolic notch
[NASA-CASE-LEW-11581-1] c 54 N75-13531

GEDWILL, M. A.

Method of protecting the surface of a substrate
[NASA-CASE-LEW-11696-1] c 37 N75-13261

Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c 26 N75-19408

Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855

Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555

GEE, S. W.

Terminal guidance system
[NASA-CASE-FRC-10049-1] c 04 N74-13420

GEHRING, W. E.

Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089

GEIDEMAN, W. A., JR.

Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318

GEIER, D. J.

Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152

GEIPEL, D. H.

Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

GEISE, P. E., JR.

FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264

GEISSINGER, STEVE K.

Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684

GEISSINGER, STEVE L.

Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586

GELB, L. L.

Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001

GELDERLOOS, H. J. C.

Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

GELLES, R.

Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857

GENNERY, D. B.

Neighborhood comparison operator
[NASA-CASE-NPO-16464-1-CU] c 60 N86-24224

GENNERY, DONALD B.

Programmable pipelined image processor
[NASA-CASE-NPO-16461-1-CU] c 60 N89-26400

GENTER, R. E.

Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001

GEORGE, CLIFFORD E.

Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MSC-21936-1] c 25 N92-19486

GEORGE, T. R., JR.

Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296

GERBER, MARGARET K.

Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N91-28425

GERDTS, J. C.

Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901

GERINGER, H. J.

Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267

GERMANN, E. F., JR.

Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239

GERTSMA, L. W.

Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579

GETCHELL, D. E.

Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344

GETTELMAN, C. C.

High powered arc electrodes
[NASA-CASE-LEW-11162-1] c 33 N74-12913

GIACCONI, R.

X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240

GIANATASIO, A.

Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358

GIANDOMENICO, A.

Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723

GIANNINI, G. M.

High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383

Combination automatic-starting electrical plasma torch and gas shutoff valve
[NASA-CASE-XLE-10717] c 37 N75-29426

GIBBONS, RANDALL E.

Purification system
[NASA-CASE-MSC-21584-1] c 25 N91-24362

GIBBS, GARY P.

Multi-degree of freedom, active vibration control method, and system
[NASA-CASE-LAR-14508-1-CU] c 39 N92-10202

GIBSON, C. ROBERT

Portable dynamic fundus instrument
[NASA-CASE-MSC-21675-1] c 52 N91-13865

GIBSON, F. W.

Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586

Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c 09 N72-22204

GIBSON, JOHN

System for testing bearings
[NASA-CASE-MFS-25589-1] c 37 N92-17584

GIBSON, JOHN C.

Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333

GIFFIN, C. E.

Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

GILBERT, G. J.

Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318

GILBREATH, W. P.

Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339

GILCHRIEST, C. E.

Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791

GILES, R. M. F.

Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

GILKISON, C. A.

Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962

GILL, W. L.

Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913

GILLERMAN, J. B.

Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718

GILLESPIE, W., JR.

Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181

Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309

Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663

Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052

GILLETTE, R. B.

Plasma cleaning device
[NASA-CASE-MFS-22906-1] c 75 N78-27913

GILLEY, G. C.

Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914

GILLEY, P. J.

Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476

GILLIGAN, J. E.

Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237

GILLILAND, C. S.

Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449

GILLMORE, W. F.

Method and apparatus for high resolution spectral analysis
[NASA-CASE-NPO-10748] c 08 N72-20177

GILMAN, M. M.

Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562

GILREATH, M. C.

Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888

GILREATH, MELVIN C.

Almond test body
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

GILWEE, W. J., JR.

Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

GIN, B.

High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

GIN, W.

Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181

GINER, J. D.

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

GINSBURG, A.

Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188

GIORGINI, E. A.

Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900

GIOVANNETTI, A., JR.

High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817

GIRALA, A. S.

Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093

Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672

- GISLER, G. L.**
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
- GLASER, P. E.**
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
- GLASGOW, T. K.**
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
- GLASS, JAMES S.**
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035
- GLASSEY, E. A.**
Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
- GLAWE, G. E.**
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
- GLEASON, J. R.**
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
- GLEASON, JOHN R.**
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
- GLEKAS, L. P.**
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
- GLENN, C. G.**
Manual actuator
[NASA-CASE-MFS-21481-1] c 37 N74-18127
Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864
- GLENN, D. C.**
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
- GLOBUS, R. H.**
Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212
- GLOMB, W. L.**
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
- GLORIA, H. R.**
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
- GLOSS, BLAIR B.**
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
- GOERING, R. S.**
Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672
- GOETZ, A. F. H.**
Multispectral imaging and analysis system
[NASA-CASE-NPO-13691-1] c 43 N79-17288
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
- GOETZ, C.**
Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
- GOLD, H.**
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
- GOLD, H. S.**
Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
- GOLD, RONALD R.**
Torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N91-21176
- GOLDBERG, G. I.**
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
- GOLDBERG, J.**
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
- GOLDEN, D. P., JR.**
Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225
Apparatus and method for processing Korotkov sounds
[NASA-CASE-MSC-13999-1] c 52 N74-26626
- GOLDMAN, G. C.**
High powered arc electrodes
[NASA-CASE-LEW-11162-1] c 33 N74-12913
- GOLDOWSKIY, M. P.**
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
- GOLDOWSKY, M. P.**
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
- GOLDOWSKY, MICHAEL P.**
Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904
- GOLDSBERRY, R. E.**
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
- GOLDSCHMIED, F. R.**
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
- GOLDSMITH, J. V.**
Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050
Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041
Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
- GOLDSTEIN, A. W.**
Supersonic fan blading
[NASA-CASE-LEW-11402-1] c 07 N74-28226
- GOLDSTEIN, B. E.**
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
- GOLDSTEIN, C. S.**
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
- GOLDSTEIN, H. E.**
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Fibrous refractory composite insulation
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Adjustable high emittance gap filler
[NASA-CASE-ARC-11310-1] c 27 N82-24339
High temperature glass thermal control structure and coating
[NASA-CASE-ARC-11164-1] c 44 N83-34448
- GOLDSTEIN, HOWARD E.**
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628
Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236
- GOLDSTEIN, I.**
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
- GOLDSTEIN, R.**
Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
- GOLDSTEIN, R. M.**
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
Method and apparatus for a single channel digital communications system
[NASA-CASE-NPO-11302-2] c 32 N74-10132
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
- GOLDSTEIN, RICHARD M.**
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
- GONZALEZ-SANABRIA, O. D.**
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
- GOODFRIEND, R.**
Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885
- GOODLOE, R. R.**
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
- GOODRICH, J. A.**
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
- GOODRICH, LEWIS R., SR.**
Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N91-32511
- GOODWIN, F. E.**
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
- GOODWIN, R. A.**
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
- GOODWIN, THOMAS J.**
Three-dimensional coculture process
[NASA-CASE-MSC-21560-1] c 51 N90-18852
- GOODYER, M. J.**
Stagnation pressure probe
[NASA-CASE-LAR-11139-1] c 35 N74-32878
- GOOKIN, R. E.**
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
- GORADIA, C. P.**
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
- GORDON, B. L.**
Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485
- GORDON, STEPHEN S.**
Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362
Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980
Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868
- GORDON, W. A.**
Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
- GORELICK, D.**
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
- GORSTEIN, M.**
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
- GOSS, W.**
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
- GOSS, W. C.**
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119
Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
Optical fiber coupling method and apparatus
[NASA-CASE-NPO-15464-1] c 74 N85-29749
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
- GOSS, WILLIS C.**
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259
- GOULD, C. W.**
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
- GOULD, J. M.**
Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453

- GOULD, W. I., JR.**
Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965
- GRAAB, J. W.**
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
- GRABOWSKI, J. P.**
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
- GRAFF, J.**
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- GRAFSTEIN, D.**
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
- GRAHAM, LLOYD J.**
Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966
- GRAHAM, O. L.**
Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
- GRAHAM, OLIN L.**
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348
Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958
- GRAHAM, R. A.**
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
- GRAHAM, R. W.**
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
- GRAINGER, JOHN L.**
Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527
- GRAN, A. A.**
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
- GRANA, D.**
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
- GRANA, D. C.**
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
Natural turbulence electrical power generator
[NASA-CASE-LAR-11551-1] c 44 N80-29834
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493
- GRANATA, R. L.**
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
- GRANETT, D.**
Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1-CU] c 71 N85-29693
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
- GRANT, D. J.**
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
- GRANT, G. R.**
Dual wavelength scanning Doppler velocimeter
[NASA-CASE-ARC-10637-1] c 35 N75-16783
- GRANT, M. M.**
Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
- GRANT, P. A.**
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
- GRANT, W. B.**
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
- GRANTHAM, W. L.**
Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980
- GRASSO, A. P.**
Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
- GRATZ, ROY F.**
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-6] c 23 N92-17882
- GRAVES, THOMAS J.**
Four-terminal electrical testing device
[NASA-CASE-MSC-21166-1] c 35 N87-25555
- GRAVES, THOMAS JOSEPH**
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498
- GRAY, C. E.**
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
- GRAY, D. L.**
Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
- GRAY, D. T.**
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
- GRAY, J. L.**
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
- GRAY, N. C.**
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle
[NASA-CASE-KSC-11064-1] c 31 N81-14137
- GRAY, ORMAL E.**
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N88-23941
- GRAY, V. H.**
Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104
Ablative system
[NASA-CASE-LEW-10359] c 33 N72-25911
Ablative system
[NASA-CASE-LEW-10359-2] c 33 N73-25952
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750
- GRAYSON, J. H.**
Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
- GREBE, V. J.**
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
- GREEB, F. J.**
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
- GREEN, A. T.**
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
- GREEN, C. W., JR.**
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
- GREEN, DAVID J.**
Lightweight ceramic insulation and method
[NASA-CASE-MSC-20782-1] c 27 N90-23566
- GREEN, E. D.**
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
- GREEN, G.**
Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
- GREEN, K. A.**
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
- GREEN, R. G.**
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
- GREEN, R. R.**
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
Method and apparatus for a single channel digital communications system
[NASA-CASE-NPO-11302-2] c 32 N74-10132
- GREEN, W. L.**
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
- GREENBERG, J.**
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
- GREENHALL, CHARLES A.**
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
- GREENLEAF, J. E.**
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
- GREENWOOD, JOHN E.**
Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660
- GREENWOOD, T. D.**
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
- GREENWOOD, T. L.**
Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794
Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058
- GREGORY, D. A.**
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
- GREGORY, J. W.**
Rocket motor system Patent
[NASA-CASE-XLE-00323] c 28 N70-38505
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
- GREGORY, T. J.**
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076
- GRIEVE, S. M.**
Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MSC-15158-1] c 14 N72-17325
- GRIFFIN, C. E.**
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
- GRIFFIN, C. R.**
Antenna deployment mechanism for use with a spacecraft
[NASA-CASE-GSC-12331-1] c 18 N80-14183
- GRIFFIN, F. D.**
Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
- GRIFFIN, JOHN W.**
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280
- GRIFFIN, R. N.**
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
- GRIFFIN, W. S.**
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466

- Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741
- GRIFFITH, G. E.**
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
- GRIGGER, DAVID J.**
Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271
- GRIMALDI, MARGARET E.**
Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621
Thermally activated retainer means
[NASA-CASE-MSC-21793-1] c 16 N91-28186
- GRIMER, D. B.**
System for the measurement of ultra-low stray light levels
[NASA-CASE-MFS-23513-1] c 74 N79-11865
- GRISAFFE, S. J.**
Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
Method of protecting the surface of a substrate
[NASA-CASE-LEW-11696-1] c 37 N75-13261
Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c 26 N75-19408
Fused silicide coatings containing discrete particles for protecting niobium alloys
[NASA-CASE-LEW-11179-1] c 27 N76-16229
- GRISAFFE, SALVATORE J.**
Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N91-13500
- GRISWOLD, R. H., JR.**
Dual output variable pitch turbopump actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
- GROBMAN, J.**
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
- GROHMANN, K.**
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
- GROOM, N. J.**
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-1] c 35 N79-26372
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
- GROOM, NELSON J.**
Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N91-21539
Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N91-21824
- GROSE, W. L.**
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
- GROSS, C.**
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Electronically scanned pressure sensor module with in situ calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
- GROSS, W. J.**
Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059
- GROSVELD, FERDINAND M. W. A.**
Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N91-27913
- GROTH, W. G.**
Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298
- GROVE, C. H.**
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
- GROVE, CHARLES H.**
Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
- GROVES, W. O.**
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
- GRUBBS, T. M.**
Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599
- GRUBER, C. L.**
Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
- GRUBER, R. P.**
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663
- GRUBER, ROBERT P.**
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939
- GRUNBAUM, B. W.**
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169
- GRUNTHANER, F. J.**
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429
- GRUNTHANER, FRANK J.**
MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N92-22035
- GUEST, S. H.**
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
- GUILLLOTTE, R. J.**
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
- GUISINGER, J. E.**
Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421
Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678
- GUIST, L. R.**
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
- GUNGLE, R. L.**
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
- GUNTER, W. D., JR.**
Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
Dual wavelength scanning Doppler velocimeter
[NASA-CASE-ARC-10637-1] c 35 N75-16783
Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501
- GUNTER, WILLIAM D.**
Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
- Matching optics for Gaussian beams
[NASA-CASE-ARC-11892-1-SB] c 74 N92-16810
Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811
- GUNTER, WILLIAM D., JR.**
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350
- GUPTA, A.**
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
- GURTLE, C. A.**
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
- GUSSOW, S. S.**
Pseudo-noise test set for communication system evaluation
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
- GUSTAFSON, G. L.**
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
- GUSTINCIC, J. J.**
Microwave limb sounder
[NASA-CASE-NPO-14544-1] c 46 N82-12685
- GUTKOWSKI, GARY P.**
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495
- GUTSHALL, R. L.**
Star scanner
[NASA-CASE-GSC-11569-1] c 89 N74-30886
- GUY, J. T., SR.**
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
- GWIN, HAL S.**
Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563
- GYORGAK, C. A.**
Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817

H

- HABBAL, N. A.**
Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164
- HABRA, J. H.**
Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
- HADDICK, CLYDE M., JR.**
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371
- HADEK, V.**
Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486
Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
- HADLAND, W. O.**
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488
- HADLEY, H. C., JR.**
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
- HADT, W. F.**
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
- HADY, W. F.**
High speed, self-acting shaft seal
[NASA-CASE-LEW-11274-1] c 37 N75-21631

- HAEHNER, C. L.**
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489
- HAEHNER, CARL L.**
High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N91-28363
- HAERTHER, L. W.**
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
- HAERTLING, GENE H.**
Method of preforming and assembling superconducting circuit elements
[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490
- HAUSSERMANN, W.**
Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
Magnetic field control
[NASA-CASE-MFS-23828-1] c 33 N82-26569
- HAFLE, R. S.**
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
- HAGEDORN, N. H.**
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
- HAGEDORN, NORMAN H.**
Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
[NASA-CASE-LEW-14973-1] c 44 N92-10222
- HAGIHARA, F. S.**
Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
- HAGOOD, G. J., JR.**
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
- HAINES, R. F.**
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
- HALE, R. R.**
Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
- HALEY, C. T.**
Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392
- HALEY, F. C.**
Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
- HALL, A. C.**
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
- HALL, D. F.**
Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
- HALL, E. D.**
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
- HALL, E. H.**
Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
- HALL, J. B., JR.**
Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
- HALL, J. F., JR.**
Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
- HALL, J. H.**
High powered arc electrodes
[NASA-CASE-LEW-11162-1] c 33 N74-12913
- HALL, WILLIAM A.**
Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
- HALLAM, K. L.**
Image tube
[NASA-CASE-GSC-11602-1] c 33 N74-21850
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
- HALLBERG, F. C.**
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083
- HALLOCK, J. N.**
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
- HALPERT, G.**
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
- HAMERMESH, C. L.**
Ambient cure polyimide foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
- HAMILTON, WILLIAM DAVID**
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462
- HAMLET, J. F.**
Automatic quadrature control and measuring system
[NASA-CASE-MFS-21660-1] c 35 N74-21017
LC-oscillator with automatic stabilized amplitude via bias current control
[NASA-CASE-MFS-21698-1] c 33 N74-26732
- HAMMACK, J. B.**
Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
- HAMMOND, A. D.**
Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
- HAMNER, RICHARD M.**
Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496
- HAMPTON, HERBERT R.**
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356
- HANCHEY, K. K.**
Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
- HANCOCK, BRUCE**
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517
- HANCOCK, BRUCE R.**
MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N92-22035
- HAND, P. J.**
Temperature compensated digital inertial sensor
[NASA-CASE-NPO-13044-1] c 35 N74-15094
- HANDLYKKEN, M. B.**
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
- HANDSCHUH, ROBERT F.**
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
- HANGER, R. T.**
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
- HANKINSON, T. W. E.**
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
- HANNA, M. F.**
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
- HANSEN, D. O.**
Particle parameter analyzing system
[NASA-CASE-XLE-06094] c 33 N78-17293
- HANSEN, G. R.**
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
- HANSEN, G. R., JR.**
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
- HANSEN, I. G.**
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096
- HANSEN, S.**
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429
- HANSON, M. P.**
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
- HANSON, P. W.**
Lift balancing device
[NASA-CASE-LAR-10348-1] c 11 N73-12264
- HANSON, R. N.**
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
- HANST, P. L.**
Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832
- HAQ, K. E.**
A method for the deposition of beta-silicon carbide by isoeptaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
- HARADA, Y.**
Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237
- HARALSON, H. S.**
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
- HARAWAY, W. M., JR.**
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
- HARD, T. M.**
Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
- HARDGROVE, W. F.**
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
- HARDY, J. C.**
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
- HARF, FREDRIC H.**
Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647
- HARMAN, J. N., III**
Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
- HARMS, V. W.**
Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
- HAROULES, G. G.**
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
- HARPER-TERVET, J.**
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
- HARPER, C. A.**
Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717

- HARPER, L. L.**
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
- HARPER, P. M., SR.**
Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
- HARRAP, V.**
Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
- HARRIGILL, W. T., JR.**
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
- HARRIS, D. M.**
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
- HARRIS, FRANK W.**
Polyphenylquinoxalines containing alkylendioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
- HARRIS, R. F.**
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
- HARRIS, R. P.**
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971
- HARRIS, R. V., JR.**
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
- HARRIS, RICHARD A.**
Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741
- HARRISON, D. R.**
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
- HARRISON, DEAN R.**
Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384
- HARRISON, E. S.**
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
- HARRISON, F. L.**
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
- HARRISON, R. G., JR.**
Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
- HARSTAD, K. G.**
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
- HART-SMITH, L. J.**
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
- HARTENSTEIN, R. G.**
Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
- HARTING, D. R.**
Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
- HARTMANN, M. J.**
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
- HARTOP, R. W.**
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
- HARVEY, G. A.**
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419
- HARVEY, W. D.**
Heat sensing instrument Patent
[NASA-CASE-XLA-01551] c 14 N71-22989
- HARWELL, R. J.**
Nonflammable coating compositions
[NASA-CASE-MFS-20486-2] c 27 N74-17283
- HARWELL, WILLIAM D.**
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866
- HASBACH, W. A.**
Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041
- HASKELL, R. E.**
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584
Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297
- HASLETT, R. A.**
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N86-27593
- HASLIM, L. A.**
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
- HASLIM, LEONARD A.**
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113
- HASSAN, AHMED A.**
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
- HASSLER, J. M., JR.**
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
- HASSON, D. F.**
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
- HATAKEYAMA, L. F.**
Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853
- HATCH, J. E.**
Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
- HATCHER, N. M.**
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
- HATFIELD, J. J.**
Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
- HATHAWAY, M. E.**
Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
- HAUER, ROBERT L.**
Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N91-26543
- HAUGE, G.**
Low distortion automatic phase control circuit
[NASA-CASE-MFS-21671-1] c 33 N74-22885
- HAURY, V. E.**
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
- HAUSER, J. A.**
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044
- HAVENS, D. E.**
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
- HAVENS, S. J.**
Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
- HAVENS, STEPHEN J.**
Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
- Polyphenylquinoxalines containing alkylendioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198
Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419
Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198
- HAVENS, STEVEN J.**
Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N91-13561
- HAWKINS, C. A.**
System for the measurement of ultra-low stray light levels
[NASA-CASE-MFS-23513-1] c 74 N79-11865
- HAWLEY, J. J.**
Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
- HAWLEY, W. W.**
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
- HAYATI, SAMAD A.**
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036
- HAYDEN, R. R.**
Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
- HAYNES, D. P.**
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
- HAYNES, DAVID P.**
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
- HAYNES, J. L.**
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
- HAYNIE, C. C.**
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- HAYNIG, C. C.**
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
- HAYNOS, J. G.**
Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
- HAYS, L. G.**
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292
Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265
Flow control valve
[NASA-CASE-NPO-11951-1] c 37 N74-21065
- HEARN, C. P.**
Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 13 N71-27271
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292
- HEATH, D. MICHELE**
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N92-21710
- HEBERLIG, J. C.**
Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285
- HECHT, DIANA L.**
Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388

HECHT, MICHAEL H.

Surface-modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

HECHT, R.

Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394

HECKELMAN, J. D.

Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798

HECKLER, C. H.

Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
Method for making conductors for ferrite memory arrays
[NASA-CASE-LAR-10994-1] c 24 N75-13032

HEDGEPEETH, J. M.

Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259

HEDGEPEETH, JOHN M.

Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199

HEDLUND, R. C.

Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231

HEER, E.

Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068

HEFFERMAN, J. T.

Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077

HEFFERNAN, J. T.

Surface finishing
[NASA-CASE-MSC-12631-1] c 24 N77-28225

HEFLINGER, L. O.

Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Microbalance
[NASA-CASE-MSC-11242] c 35 N78-17358

HEFNER, JERRY N.

Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071

HEIDMANN, M. F.

Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819

HEIDT, M. F.

Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411

HEIER, W. C.

Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
Method of laminating structural members
[NASA-CASE-XLA-11028-1] c 24 N74-27035
Molding apparatus
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Evacuated, displacement compression mold
[NASA-CASE-LAR-10782-2] c 31 N75-13111
Molded composite pyrogen igniter for rocket motors
[NASA-CASE-LAR-12018-1] c 20 N78-24275

HEIMBUCH, A. H.

Chromato-fluorographic drug detector
[NASA-CASE-ARC-10633-1] c 25 N74-26947
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590

HEIMBUCH, ALVIN H.

Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Structural panels
[NASA-CASE-ARC-11429-2CU] c 27 N87-22845

HEIMERL, G. J.

Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452

HEIN, L. A.

Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
Spherical bearing
[NASA-CASE-MFS-23447-1] c 37 N79-11404
Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
Resilient seal ring assembly with spring means applying force to wedge member
[NASA-CASE-MFS-25678-1] c 37 N84-11497

HEIN, LEOPOLD A.

Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977

HEINDL, J. C.

Fluid lubricant system Patent
[NASA-CASE-MFS-03972] c 15 N71-23048

HEINEMANN, K.

Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408

HEINEY, O. K.

Self-actuating, gas operated launcher
[NASA-CASE-NPO-11013] c 11 N72-22247

HEISMAN, R. M.

Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492

HELBERT, W. B., JR.

Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001

HELD, D. N.

Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

HELD, DANIEL N.

Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

HELLBAUM, R. F.

Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579
Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050

HELLER, C.

Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

HELLER, J. A.

Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057

HELLMANN, R. F.

Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089

HELMAN, D. D.

Method for repair of thin glass coatings
[NASA-CASE-KSC-11097-1] c 27 N82-33520

HELMES, C. R.

Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660

HEMMATI, HAMID

Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528

HENDEL, F. J.

Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228

HENDERSON, DAVID E.

Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163

HENDERSON, M. E.

Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334

HENDRICKS, H. D.

Method of detecting oxygen in a gas
[NASA-CASE-LAR-10668-1] c 06 N73-16106

HENLEY, W. H.

Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059

HENNIGAN, T. J.

Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363

Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336

HENRY, A. W.
Dicyanocetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500

HENRY, B. Z., JR.
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674

HENRY, PAUL K.
Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499

HENRY, V. F.
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265

HEPNER, T. E.
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

HEPPNER, J. P.
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962

HERBELL, T. P.
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536

HERGENROTHER, P. M.
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups
[NASA-CASE-LAR-12838-1] c 27 N83-34040
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
Phenoxy resins containing pendant ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
Sulfone-ester polymers containing pendant ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515

HERGENROTHER, PAUL M.
Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
Polyphenylquinoxalines containing alkylenedioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953
Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954
Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N91-13561
N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419

- Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N91-23237
- Ethynyl terminated imidothioethers and resins therefrom
[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307
- Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066
- Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198
- HERMAN, C. F.**
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
- HERMANN, A. M.**
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
- HERMESMEYER, C. E.**
Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
- HEROLD, C. P.**
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
- HERR, R. W.**
A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
- HERREN, BLAIR J.**
Crystal growth apparatus
[NASA-CASE-MFS-28182-1] c 76 N90-24169
- HERRMANN, A. L.**
Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829
- HERRMANN, FREDERICK T.**
Crystal growth apparatus
[NASA-CASE-MFS-28182-1] c 76 N90-24169
- HERRON, B. G.**
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
- HERTZ, LESLIE S.**
Thermally activated retainer means
[NASA-CASE-MSC-21793-1] c 16 N91-28186
- HESLIN, T. M.**
Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471
- HESPEINHIDE, W. H.**
Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463
- HESS, CLIFFORD W.**
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542
- HESS, D. A.**
Passive propellant system
[NASA-CASE-MFS-23642-2] c 20 N78-27176
- Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
- HESS, R. V.**
A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520
- HESS, R. W.**
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
- HESS, ROBERT V.**
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
- HESTER, H. B.**
Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
- HETHCOAT, J. P.**
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
- HEWES, D. E.**
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
- Reduced gravity simulator Patent
[NASA-CASE-XLA-01187] c 11 N71-16028
- HEWITT, D. R.**
Thermal control system
[NASA-CASE-GSC-12771-1] c 34 N84-14461
- HEYMAN, J. S.**
Ultrasonic calibration device
[NASA-CASE-LAR-11435-1] c 35 N76-15432
- CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
- Pseudo continuous wave instrument
[NASA-CASE-LAR-12260-1] c 35 N79-10390
- CDS solid state phase insensitive ultrasonic transducer
[NASA-CASE-LAR-12304-1] c 35 N80-20559
- Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
- Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862
- Pulsed phase locked loop strain monitor
[NASA-CASE-LAR-12772-1] c 33 N83-16626
- Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357
- Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
- Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
- HEYMAN, JOSEPH S.**
Rapid quantification of an internal property
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
- Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962
- Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
- Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302
- Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
- Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822
- Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N91-28321
- Method of recertifying a loaded bearing member using a phase point
[NASA-CASE-LAR-14741-1] c 39 N92-11384
- Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621
- Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N92-21710
- HEYMAN, JOSEPH SAUL**
Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963
- HEYSER, R. C.**
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
- Method for shaping and aiming narrow beams
[NASA-CASE-NPO-14632-1] c 32 N82-18443
- HEYSON, H. H.**
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
- HIEDA, L. S.**
Controller for computer control of brushless dc motors
[NASA-CASE-NPO-13970-1] c 33 N81-20352
- HIGA, W. H.**
Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
- Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
- Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
- Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
- HIGBY, R. F.**
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
- HIGH, R. W.**
Meteoroid capture cell construction
[NASA-CASE-MSC-12423-1] c 91 N76-30131
- HILBERT, E. E.**
Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
- Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
- Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240
- HILBORN, E. H.**
Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
- Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
- Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
- HILDEBRANDT, A. F.**
Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946
- Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516
- Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
- Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361
- HILDNER, E.**
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
- HILKER, W. R.**
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
- HILL, E. K.**
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
- HILL, O. E.**
Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
- Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
- HILL, P. R.**
Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897
- Kinesthetic control simulator
[NASA-CASE-LAR-10276-1] c 09 N75-15662
- HILL, W. E.**
Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
- HILL, WILLIAM E.**
Sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N92-16123
- HILLBERG, E. T.**
Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441
- HILLBORN, E. H.**
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
- HILLIS, D. A.**
Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
- HILLMAN, C. E., JR.**
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717
- HILLMAN, J. J.**
Thermal compensator for closed-cycle helium refrigerator
[NASA-CASE-GSC-12168-1] c 31 N79-17029
- HILTON, G. E.**
Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
- HIMMELRIGHT, R. M.**
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
- HINKLEY, E. D., JR.**
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
- HIRAYAMA, C.**
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
- HIRSHFIELD, S. M.**
Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
- HITCHMAN, M. J.**
Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
- HOBART, H. F.**
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
- HOBBS, A. J.**
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
- HOBLIN, L. E.**
Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
- HOCHMAIR, E. S.**
Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
- Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
- Integrable power gyrator
[NASA-CASE-MFS-22342-1] c 33 N75-30428
- HODDER, D. T.**
Apparatus for remote handling of materials
[NASA-CASE-LAR-10634-1] c 37 N74-18123
- HODGE, P. E.**
Corrosion resistant thermal barrier coating
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- HODGES, D. H.**
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
- HODO, JAMES D.**
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601

- HOFFLER, G. W.**
Apparatus and method for processing Korotkov sounds
[NASA-CASE-MSC-13999-1] c 52 N74-26626
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
- HOFFMAN, C. A.**
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-1] c 24 N81-17170
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
- HOFFMAN, D. G.**
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
- HOFFMAN, E. L.**
Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
- HOFFMAN, H. C.**
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064
- HOFFMAN, I. S.**
Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
- HOFFMAN, L. A.**
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
- HOFFMAN, T. E.**
Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
- HOFFMAN, WILLIAM C., III**
Four-terminal electrical testing device
[NASA-CASE-MSC-21166-1] c 35 N87-25555
- HOHL, F.**
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
- HOKLO, K. H.**
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
- HOLBEN, MILFORD S., JR.**
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
- HOLDEMAN, L. B.**
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
- HOLDEN, G. R.**
Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
- HOLDERER, O. C.**
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
- HOLDERMAN, L. B.**
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
- HOLDREN, R. T., III**
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
- HOLDS, J. K.**
Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
- HOLESKI, D. E.**
Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
- HOLKO, K. H.**
Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Diffusion welding in air
[NASA-CASE-LEW-11387-1] c 37 N74-18128
Diffusion welding
[NASA-CASE-LEW-11388-2] c 37 N74-21055
- HOLLAHAN, J. R.**
Method of preparing water purification membranes
[NASA-CASE-ARC-10643-1] c 25 N75-12087
- HOLLAND, L. R.**
Apparatus and method for heating a material in a transparent ampoule
[NASA-CASE-MFS-25436-1] c 27 N83-36220
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971
- HOLLAND, V. B.**
Signal conditioning circuit apparatus
[NASA-CASE-ARC-10348-1] c 33 N75-19518
- HOLLANDER, J.**
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
- HOLLANHAN, J. R., JR.**
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
- HOLLEMAN, E. C.**
Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
- HOLLENBAUGH, R. C.**
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
- HOLLEY, L. D.**
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373
- HOLLIDAY, M. L.**
Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
- HOLLIDAY, R. J.**
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
- HOLLIS, B. R., JR.**
Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- HOLLOW, R. H.**
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
- HOLLOWAY, SIDNEY E., III**
Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N91-32511
- HOLMAN, E. V.**
Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
- HOLMAN, EARL V.**
Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660
- HOLMES, B. K.**
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
- HOLMES, BRUCE J.**
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094
Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587
- HOLMES, H. K.**
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
- HOLMES, HARLAN K.**
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706
- HOLMES, J. F.**
Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667
- HOLMES, L., JR.**
Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031
- HOLMES, M.**
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- HOLMES, R. F.**
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463
- HOLMES, S. J.**
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
- HOLMES, T. H.**
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
- HOLMES, W. T.**
Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
- HOLMSTROM, F. R.**
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
- HOLWACH, J.**
Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871
- HOLT, H. M.**
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
- HOLT, J. W.**
Attachment system for silica tiles
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Method for repair of thin glass coatings
[NASA-CASE-KSC-11097-1] c 27 N82-33520
- HOLT, N. I.**
Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
- HOLT, WILLIAM H.**
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303
- HOLTZE, R. F.**
Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
- HOLWAY, H. P.**
Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
- HOMKES, R. J.**
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759
- HONEY, R. W.**
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
- HONEYCUTT, L., III**
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
- HONG, J. P.**
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896
- HONG, S. D.**
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
- HONNELL, M. A.**
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351

- HOOD, R. T.**
Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037
- HOOD, W. R.**
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface
[NASA-CASE-LAR-12261-1] c 02 N80-20224
- HOOP, J. M.**
Method and apparatus for nondestructive testing
[NASA-CASE-MFS-21233-1] c 38 N74-15395
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
- HOOPER, C. D.**
Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
- HOOPER, S. L.**
Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595
- HOOVER, R. B.**
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866
Multiplate focusing collimator
[NASA-CASE-MFS-20932-1] c 35 N75-19616
Method for retarding dye fading during archival storage of developed color photographic film
[NASA-CASE-MFS-23250-1] c 35 N82-11432
Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459
- HOOVER, R. J.**
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
- HOOVER, RICHARD**
Variable magnification variable dispersion-glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N90-27595
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
- HOOVER, RICHARD B.**
Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N91-15519
- HOPKINS, P. M.**
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
- HOPKINS, V.**
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
- HOPPER, J. H.**
Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
- HOPPING, R. L.**
Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589
- HOPSON, PURNELL, JR.**
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
Fiber optic microphone
[NASA-CASE-LAR-14402-1-CU] c 74 N91-15874
- HORNE, W. B.**
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
- HORNE, WARREN L.**
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
- HORNER, J. L.**
Optical noise suppression device and method
[NASA-CASE-MSC-12640-1] c 74 N76-31998
- HORTON, D. B.**
Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
- HORTON, J. C.**
Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
- HORTTOR, R. L.**
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
- HOSETHIEN, H. H.**
Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
- HOTZ, G. M.**
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321
Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362
- HOUCK, W. H.**
Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
- HOUSEMAN, J.**
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c 44 N76-18642
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636
Combustion engine
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
- HOWARD, DAVID E.**
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
- HOWARD, E. A.**
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321
Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362
- HOWARD, F. S.**
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c 14 N73-27378
- HOWARD, FLOYD G.**
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587
- HOWARD, FRANK S.**
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495
- HOWARD, J. C.**
Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
- HOWARD, P. W.**
Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273
- HOWARD, RICHARD**
Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861
- HOWARD, RICHARD T.**
Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200
- HOWARD, W. D.**
Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993
- HOWARD, W. H.**
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
- Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
Tread drum for animals
[NASA-CASE-ARC-10917-1] c 51 N78-27733
- HOWARTH, J. T.**
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
Process for spinning flame retardant elastomeric compositions
[NASA-CASE-MSC-14331-3] c 27 N78-32262
- HOWE, R. D.**
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
- HOWE, T. L.**
Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
- HOWELL, B. J.**
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
- HOWELL, HAROLD R.**
Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999
- HOWELL, J. R.**
Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
- HOWELL, W. E.**
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
- HOWELL, W. L.**
Fluid thrust control system
[NASA-CASE-XMF-05964-1] c 20 N79-21124
- HOWLAND, B. T.**
High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485
- HOYT, H. E.**
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- HOYT, R. F.**
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
- HOYT, RONALD F.**
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
- HRACH, F. J.**
Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
- HRASTAR, J. A.**
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
- HRON, R. L.**
Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249
- HRUBY, R. J.**
Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404

HRYNIEWIECKI, E.

Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238

HSU, G. C.

Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Coal desulfurization
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282

HSU, IN-SHEK

Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N90-27040

HSU, L. C.

Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
In-situ cross linking of polyvinyl alcohol
[NASA-CASE-LEW-13135-2] c 27 N81-24257
Polyvinyl alcohol battery separator containing inert filler
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

HSU, M. T. S.

Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
High performance mixed bismaleimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131

HSU, MING-TA S.

Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

HSU, Y.-Y.

Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983

HUA, GRACE C.

System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944

HUANG, HO-CHUNG

Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282

HUANG, JOHN

Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

HUANG, M. Y.

Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427

HUBBARD, W. P.

Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267

HUBBELL, THEODORE E.

Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179

HUBER, C. S.

Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096

HUBER, R. F.

Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087

HUBER, W. C.

Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336

HUBER, R. F.

Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936

HUBER, R. F.

Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454

HUBER, R. F.

Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921

HUBER, R. F.

Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426

HUDGINS, J. L.

Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423

HUDGINS, J. L.

Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731

HUDIS, M.

Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214

HUDOCK, R. J.

Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760

HUDSON, O. K.

Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587

HUDSPETH, T.

Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469

HUELSMAN, L. P.

RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171

HUEY, D. C.

Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349

HUFF, R. G.

Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410

HUFF, R. G.

Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417

HUFF, R. G.

Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490

HUFFAKER, R. M.

Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212

HUFFAKER, R. M.

Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028

HUFFAKER, R. M.

Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493

HUFFAKER, R. M.

Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753

HUGGINS, C. T.

Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612

HUGHES, B. C.

Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896

HUGHES, C. T.

Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358

HUGHES, D. B.

Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857

HUGHES, F. M.

Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327

HULL, R. A.

Moving body velocity arresting line
[NASA-CASE-LAR-12372-1] c 37 N82-18601

HULL, R. A.

Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N91-13860

HULT, T. D.

Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605

HUMBERT, J. E.

Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778

HUMENIK, F. M.

Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915

HUMES, D. H.

Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282

HUMES, DONALD H.

Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

HUMMER, R. F.

Scanner
[NASA-CASE-GSC-12032-2] c 43 N82-13465

HUMPHREY, D. E.

Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

HUMPHREY, M. F.

Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

HUMPHREY, M. F.

Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579

HUMPHREY, M. F.

Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950

HUNEIDI, F.

Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018

HUNG, CHING-CHEH

Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320

HUNG, CHING-CHEH

Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N92-10090

HUNG, CHING-CHEH

Storing fluorine gas in carbon fibers and releasing the same
[NASA-CASE-LEW-15359-1] c 25 N92-17902

HUNGERFORD, W. J.

Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705

HUNKELER, R. E.

Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998

HUNT, BRIAN D.

Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

HUNT, BRIAN D.

Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-2-CU] c 76 N92-22040

HUNT, BRIAN D.

Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-3-CU] c 76 N92-22041

HUNT, G. H.

System for the measurement of ultra-low stray light levels
[NASA-CASE-MFS-23513-1] c 74 N79-11865

HUNT, J. G.

Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464

HUNT, J. L.

Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

HUNT, S. R., JR.

Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759

HUNTER, NORWOOD

Portable dynamic fundus instrument
[NASA-CASE-MSC-21675-1] c 52 N91-13865

HUNTER, R. E.

Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429

HUNTRESS, W. T.

Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492

HUNTRESS, W. T., JR.

Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163

HURD, W. A.

System for the measurement of ultra-low stray light levels
[NASA-CASE-MFS-23513-1] c 74 N79-11865

HURD, W. J.

Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034

HURD, W. J.

Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140

HURD, W. J.

Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176

- Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1CU] c 04 N86-27270
- HURD, WILLIAM J.**
Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712
- HURSTA, W. N.**
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
- HURWITZ, F. I.**
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
- HUSAIN-ABIDI, A. S.**
Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666
- HUSCHKE, E. G., JR.**
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
- HUSMANN, O. K.**
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
- HUSSEY, M. W.**
Filter regeneration systems
[NASA-CASE-MSC-14273-1] c 34 N75-33342
- HUTCHINSON, W. D.**
Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084
- HUTCHISON, J. J.**
Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
- HUTTO, R. J.**
Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135
- HUTTO, WILLIAM R.**
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
- HYMER, R. L.**
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
- I-LECHAO, J.**
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
- IANNINI, A. A.**
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
- IANNONE, M.**
Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
- ICELAND, W. F.**
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
- ICELAND, WILLIAM F.**
ARC length control for plasma welding
[NASA-CASE-MSC-20900-1] c 37 N88-30131
- IDEN, R. B.**
Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
- IGENBERGS, E. B.**
Self-energized plasma compressor
[NASA-CASE-MFS-22145-1] c 75 N75-13625
Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
- IGOE, W. B.**
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
- ILES, P. A.**
Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
- ILLG, W.**
Hydraulic grip Patent
[NASA-CASE-XLA-05100] c 15 N71-17696
Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
- IMBOLDI, E.**
Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
- IMHOFF, MARC L.**
Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546
- IMIG, L. A.**
Anti-buckling fatigue test assembly
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
Heating and cooling system
[NASA-CASE-LAR-12393-1] c 34 N83-34221
- IMLAY, E. H.**
Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
- INGE, S. V., JR.**
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493
- INGHAM, J. D.**
Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
- INGHAM, K. T.**
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
- INGLE, W. M.**
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
- IRICK, S. C.**
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Continuous self-locking spiral wound seal
[NASA-CASE-LAR-12315-1] c 37 N82-24490
- IRONS, A. S.**
Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
- IRVIN, TIMOTHY B.**
Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689
- IRWIN, A. S.**
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
- IRWIN, K. S.**
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
- IRWIN, T. P.**
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
- ISKENDERIAN, THEODORE C.**
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380
- ISLEY, W. C.**
Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766
- ITO, T. I.**
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
- IVES, R. E.**
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
- IVIE, C. V.**
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
- IWASAKI, N.**
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
- IWASAKI, R. S.**
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
- IWASAKI, RICHARD S.**
Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961
- JACK, J. R.**
Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
- JACKSON, C. M., JR.**
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
- JACKSON, J. W., JR.**
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
- JACKSON, K. R.**
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
- JACKSON, L. R.**
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
Orbiter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161
Multiwall thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
- JACKSON, L. ROBERT**
Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
- JACKSON, M. R.**
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
- JACKSON, ROBERT**
Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786
- JACOB, D. S.**
Pressure modulating valve
[NASA-CASE-MSC-14905-1] c 37 N77-28487
- JACOBI, N.**
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
- JACOBS, I. M.**
Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928
- JACOBS, J. M.**
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
- JACOBS, R. B.**
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
- JACOBS, V. L.**
Passive propellant system
[NASA-CASE-MFS-23642-2] c 20 N78-27176
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
- JACOBSON, D. S.**
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
- JACOY, PAUL J.**
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880

JAGOW, R. B.

Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225

JAIN, A.

Surface roughness measuring system
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327

JAIN, ABHINANDAN

High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N92-17895

JAKSTYS, V. J.

Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013

JALAN, V.

Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

JALINK, A., JR.

Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475

JALINK, ANTONY, JR.

Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590

JALUFKA, N. W.

Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307

JAMES, GORDON E.

Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541

JAMES, L. W.

III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

JAMES, N. J.

Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091

JAMES, R.

System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075

JAMIESON, ROBERT S.

Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970

JAMISON, H. H.

Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044

JANEFF, W.

Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473

JANESICK, J. R.

Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

JANKOWSKI, F.

Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463

JANNICHE, P. J., JR.

Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311

JANSEN, H. B.

Fluid thrust control system
[NASA-CASE-XMF-05964-1] c 20 N79-21124

JARRELL, LAMONT

Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662

JARVIS, M. J.

Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

JAVAN, A.

Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614

JEANE, H. L.

Priority interrupt system
[NASA-CASE-NPO-13067-1] c 60 N76-18800

JECH, R. W.

Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288

Method of making fiber reinforced metallic composites

Patent
[NASA-CASE-XLE-00231] c 17 N70-38198

Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490

Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894

JEDLICKA, J. R.

Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379

JEFFERS, E. L.

Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714

Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067

Rapid, quantitative determination of bacteria in water
[NASA-CASE-GSC-12158-1] c 51 N83-27569

Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

JEFFERY, P. A. E.

Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087

JEFFREYS, H. B.

Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493

JELALIAN, A. V.

Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028

Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493

JELLISON, J. C.

Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161

JENKINS, K. H.

Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796

JENKINS, L. M.

Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808

JENKINS, R. K.

Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105

JENNINGS, D. E.

Thermal compensator for closed-cycle helium refrigerator
[NASA-CASE-GSC-12168-1] c 31 N79-17029

Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549

JENSEN, A. R.

Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

JENSEN, B. J.

Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450

Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526

The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515

JENSEN, BRIAN J.

Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953

JENSEN, C. A.

Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753

Continuous plasma laser
[NASA-CASE-XNP-04167-3] c 36 N77-19416

JENSEN, J. KERMIT

Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118

JENSEN, K. A.

Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

JENSEN, K. J.

Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

JENSEN, P. A.

Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750

JENSEN, R. N.

Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560

Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810

JENSEN, RONALD N.

Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640

JENSEN, RONALD N.

Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N91-16999

Multi-colored layers for visualizing aerodynamic flow effects

[NASA-CASE-LAR-13742-1] c 02 N92-21588

JEPPSEN, G. L.

Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540

JESSUP, A. D.

Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284

Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178

JETER, J. D.

Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985

JEWELL, P. A.

Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675

JEWELL, R. A.

Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805

Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015

Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075

Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077

JEX, D. W.

Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310

Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931

JHABVALA, M. D.

Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360

Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

JHABVALA, M. O.

Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321

JHABVALA, MURZBAN

Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066

JHABVALA, MURZBAN D.

Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271

Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522

JING, SUN

Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946

JOHNSON, D. J.

Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613

JOHANNSEN, K. G.

Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265

JOHANSEN, D. L.

Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343

Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085

JOHNS, C. E.

Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204

JOHNSON, A. L., JR.

Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783

JOHNSON, C. B.

Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925

Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475

Image tube
[NASA-CASE-GSC-11602-1] c 33 N74-21850

JOHNSON, C. C.

Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499

Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851

Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947

Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860

- Reverse osmosis membrane of high urea rejection properties
[NASA-CASE-ARC-10980-1] c 27 N80-23452
- JOHNSON, C. C., JR.**
Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
- JOHNSON, C. E.**
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
- JOHNSON, C. L.**
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
- JOHNSON, C. W.**
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
- JOHNSON, D. L.**
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
- JOHNSON, DENNIS A.**
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
- JOHNSON, E. G.**
System and method for tracking a signal source
[NASA-CASE-HQN-10880-1] c 17 N78-17140
- JOHNSON, E. T.**
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
- JOHNSON, F. W.**
Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
- JOHNSON, GARY S.**
Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334
- JOHNSON, GORDON G.**
Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N92-17860
- JOHNSON, H. G.**
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
- JOHNSON, H. I.**
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474
Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147
- JOHNSON, J. C., JR.**
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
- JOHNSON, J. D.**
Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
- JOHNSON, J. E.**
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
- JOHNSON, J. E., JR.**
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
- JOHNSON, J. L.**
Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568
- JOHNSON, J. L., JR.**
High lift aircraft
[NASA-CASE-LAR-11252-1] c 05 N75-25914
- JOHNSON, JOSEPH L., JR.**
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828
- JOHNSON, K. G.**
Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
- JOHNSON, R. C.**
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
- JOHNSON, R. D.**
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
- JOHNSON, R. E.**
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
- JOHNSON, R. L.**
Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
- JOHNSON, R. W.**
Microwave switching power divider
[NASA-CASE-GSC-12420-1] c 33 N82-16340
- JOHNSON, ROBERT R.**
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
[NASA-CASE-LAR-13562-2] c 24 N91-25199
- JOHNSON, V. E., JR.**
Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305
- JOHNSTON, A. R.**
Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Cooperative multi-axis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11945-1] c 36 N76-18427
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
- JOHNSTON, D. F.**
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
- JOHNSTON, DAVID F.**
Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320
Nonintrusive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544
- JOHNSTON, E. A.**
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
Thrust reverser for a long duct fan engine
[NASA-CASE-LEW-13199-1] c 07 N82-26293
- JOHNSTON, G. D.**
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
- JOHNSTON, J. D.**
Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
- JOHNSTON, J. E.**
Electrostatic measurement system
[NASA-CASE-MFS-22129-1] c 33 N75-18477
- JOHNSTON, M. F.**
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
- JOHNSTON, M. H.**
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
- JOHNSTON, MARY H.**
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
- JOHNSTON, NORMAN J.**
A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
- JOHNSTON, R. L.**
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
- JOHNSTON, R. P.**
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
- JOHNSTON, R. S.**
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
- JOHNSTON, W. V.**
Heat flow calorimeter
[NASA-CASE-GSC-11434-1] c 34 N74-27859
- JOLLEY, J.**
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
- JOLLY, CLIFFORD D.**
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570
- JONES, E. W.**
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
- JONES, HOWARD C.**
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
- JONES, IRBY W.**
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N91-32511
- JONES, J. C.**
Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
- JONES, J. F.**
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
- JONES, J. H.**
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
- JONES, J. L.**
Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909
Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728
- JONES, JACK A.**
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223
Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385
Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203
Three-stage sorption type cryogenic refrigeration system and method employing heat regeneration
[NASA-CASE-NPO-18366-1-CU] c 31 N92-17674
- JONES, KENNETH L.**
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384
- JONES, R. A.**
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
Method for determining thermo-physical properties of specimens
[NASA-CASE-LAR-11053-1] c 25 N74-18551
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
- JONES, R. E.**
Swirl primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
- JONES, R. H.**
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
- JONES, R. J.**
Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
- JONES, R. L.**
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
- JONES, R. T.**
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217
- JONES, STEPHEN B.**
Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392

- Schlieren system for visualizing the flow within a pipe of circular cross-section
[NASA-CASE-LAR-13944-1] c 35 N92-11336
- JONES, W. C.**
Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
- JONES, W. P.**
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
- JORDAN, A. W.**
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
- JORDON, W. J.**
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
- JOSIAS, C. S.**
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
- JOSLYN, A. W.**
Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104
- JOYNER, U. T.**
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160
- JUANG, JER-NAN**
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184
Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N91-28580
- JUDAY, RICHARD D.**
Two dimensional vernier
[NASA-CASE-MS-C-21700-1] c 35 N91-23462
Optical joint correlator for real-time image tracking and retinal surgery
[NASA-CASE-MS-C-21509-1] c 74 N91-25840
Three dimensional moire pattern alignment
[NASA-CASE-MS-C-21416-1] c 74 N91-32922
Programmable remapper for image processing
[NASA-CASE-MS-C-21350-1] c 60 N92-16563
Two dimensional vernier
[NASA-CASE-MS-C-21700-1] c 35 N92-22039
- JUDD, B. W.**
Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
- JUDD, J. H.**
Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386
Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
- JUDY, P. F.**
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MS-C-14276-1] c 52 N77-14737
- JUERGENSEN, K.**
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
- JUHAS, JOHN J.**
One step HIP canning of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493
Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145
- JUHASZ, A. J.**
Controlled separation combustor
[NASA-CASE-LEW-11593-1] c 20 N76-14190
- JURSCAGA, G. M.**
Method of fabricating an article with cavities
[NASA-CASE-LAR-10318-1] c 31 N74-18089
- JUVINALL, G. L.**
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808

K

- KABANA, W. P.**
Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
- KACHARE, AKARAM H.**
High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1-CU] c 44 N87-17399
- KAHLBAUM, W. M., JR.**
Chromatically corrected virtual image visual display
[NASA-CASE-LAR-12251-1] c 74 N80-27185

- KAHN, JON**
Pressure vessel flex joint
[NASA-CASE-MS-C-21748-1] c 37 N91-25415
- KAHN, JON B.**
Docking system for spacecraft
[NASA-CASE-MS-C-21327-1] c 18 N90-11798
Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MS-C-21562-1] c 16 N92-16007
Pressure vessel flex joint
[NASA-CASE-MS-C-21748-1] c 37 N92-21727
- KAISER, J. A., JR.**
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
- KALFAYAN, S. H.**
Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
- KALIL, L. F.**
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580
- KALKBRENNER, R. W.**
Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
- KALLINS, C.**
Rotary actuator
[NASA-CASE-NPO-10244] c 15 N72-26371
- KALLVINSKAS, J. J.**
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
- KALSHOVEN, J. E., JR.**
Method of and apparatus for measuring temperature and pressure
[NASA-CASE-GSC-12558-1] c 36 N85-21639
- KALVINSKAS, J. J.**
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
- KAMAR, DEVENDRA**
Aromatic cyclophosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
- KAMI, S.**
Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
- KAMINSKAS, R. A.**
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MS-C-12280] c 27 N71-16348
- KAMMERMEYER, K.**
Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
- KAMPINSKY, A.**
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
- KANABUS, E. W.**
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
- KANBER, H.**
Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
- KANE, J. O.**
Thermal barrier pressure seal
[NASA-CASE-MS-C-18134-1] c 37 N81-15363
- KANE, T. R.**
Spacecraft attitude control method and apparatus
[NASA-CASE-HON-10439] c 21 N72-21624
- KANETKAR, SHARAD V.**
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
- KAPUSTKA, R. E.**
Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531
- KARIGAN, G. H.**
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
- KARIOTIS, A. H.**
Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323

- KARSH, I.**
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
- KASPARECK, W. E.**
Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
- KASSEL, PHILIP C., JR.**
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412
- KAST, H. B.**
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
- KASTAN, H.**
Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563
- KASTNER, S. O.**
Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
- KATOW, M. S.**
Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
- KATTI**
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519
- KATTI, ROMNEY R.**
Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438
- KATVALA, V. W.**
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
- KATVALA, VICTOR W.**
Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026
- KATZ, J.**
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305
- KATZ, L.**
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
- KATZ, M. G.**
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
- KATZ, N. H.**
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
- KATZBERG, S. J.**
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
- KATZEN, E. D.**
Protected isotope heat source
[NASA-CASE-LEW-11227-1] c 73 N75-30876
- KATZIN, L.**
Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
- KAUFMAN, H. R.**
Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043

- Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
- Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
- KAUFMAN, J. W.**
Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460
- Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
- KAUFMAN, W. B.**
High current electrical lead
[NASA-CASE-LEW-10950-1] c 33 N74-27683
- KAUFMANN, J. J.**
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
- KAUKLER, WILLIAM F.**
Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835
- KAVANAUGH, C.**
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
- KAVAYA, M. J.**
Stark effect spectrophone for continuous absorption spectra monitoring
[NASA-CASE-NPO-15102-1] c 25 N81-25159
- Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
- Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- KAZAROFF, J. M.**
Heat exchanger and method of making
[NASA-CASE-LEW-12441-1] c 34 N79-13289
- Heat exchanger and method of making
[NASA-CASE-LEW-12441-2] c 34 N80-24573
- Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
- KAZNOFF, A. I.**
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- KAZOKAS, G. P.**
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
- KEAFER, L. S., JR.**
Transmitting and reflecting diffuser
[NASA-CASE-LAR-10385-2] c 70 N74-13436
- Transmitting and reflecting diffuser
[NASA-CASE-LAR-10385-3] c 74 N78-15879
- KEARNS, W. J.**
Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
- KEATHLEY, W. H.**
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
- Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450
- KEATING, J. M.**
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
- KEEFER, J. M.**
Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
- KEENE, W. H.**
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
- Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
- KEETON, A. R.**
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494
- KEHLET, A. B.**
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
- Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
- Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
- Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
- KELBAUGH, B. N.**
Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
- KELLER, E. E.**
Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463
- KELLER, G. C.**
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
- KELLER, O. F.**
Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603
- KELLER, V. W.**
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355
- KELLER, VERNON W.**
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242
- KELLEY, H. L.**
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- KELLEY, HENRY L.**
Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809
- Process for bonding elastomers to metal
[NASA-CASE-LAR-13645-1] c 27 N91-28424
- KELLEY, J. R.**
Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
- KELLEY, W. W.**
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
- KELLS, M. C.**
Device for measuring pressure Patent
[NASA-CASE-XAC-04458] c 14 N71-24232
- KELLY, D. L.**
Multistage aerospace craft
[NASA-CASE-XMF-02263] c 05 N74-10907
- KELLY, H. N.**
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
- KELLY, W. L., IV**
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
- Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
- KELLY, W. W.**
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
- KELM, J. S.**
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
- KELSEY, E. L.**
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
- SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
- KEMP, K. L.**
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
- KEMP, R. F.**
Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
- KEMP, R. H.**
Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577
- KENDAL, J. M.**
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
- KENDALL, J. M.**
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
- KENDALL, J. M., JR.**
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
- KENDALL, J. M., SR.**
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
- Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
- KENDALL, JAMES M., JR.**
Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
- KENDRICK, W. P.**
Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032
- Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
- KENNEDY, B. W.**
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
- Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185
- Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
- Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
- Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
- Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951
- KENNEWAY, A. J., III**
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
- KENNEY, R. L.**
Geneva mechanism
[NASA-CASE-NPO-13281-1] c 37 N75-13266
- KENT, W. D.**
Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
- KENYON, G. C.**
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
- KEPLER, C. E.**
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
- KERLEY, J. J.**
Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299
- KERLEY, J. J., JR.**
Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416
- KERLEY, JAMES J.**
Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387
- Compliant walker
[NASA-CASE-GSC-13348-2] c 52 N91-29714
- KERLEY, JAMES J., JR.**
Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388
- KERN, C. V.**
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
- KERN, J. D.**
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
- KERNODLE, B. H.**
Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
- KERR, J. H.**
Traffic survey system
[NASA-CASE-MFS-22631-1] c 66 N76-19888
- KERR, JOSEPH H.**
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874
- KERSEY, E. D., JR.**
Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
- KERSHNER, D. D.**
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
- KERSLAKE, W. R.**
Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
- Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
- KERSTEN, L.**
Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
- KERWIN, W. J.**
Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
- Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
- Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
- Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
- RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
- Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
- Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
- Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
- KESSEL, J. E.**
Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467
- KESSINGER, R. L.**
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
- KEY, C. F.**
Nonflammable coating compositions
[NASA-CASE-MFS-20486-2] c 27 N74-17283

- KEYNTON, R. J.**
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
- KHAN, A. S.**
Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
- KHANNA, S. K.**
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- KHANNA, S. M.**
Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133
- KHANNA, SATISH K.**
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
- KHATTAR, MUKESH K.**
Heat tube device
[NASA-CASE-KSC-11395-1-CU] c 34 N91-21473
- KIBBE, R. K.**
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
- KICHAK, R. A.**
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
- KIEFER, P. J., JR.**
Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
- KIKIN, G. M.**
Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084
- KILLALEA, W. P.**
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
- KILLGROVE, T. O.**
Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
- KILLION, DERLING**
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
- KILLION, DERLING**
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- KIM, C.**
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
- KIM, H. H.**
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
- KIM, JAE H.**
High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841
- KIM, K. M.**
Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489
- KIM, K. M.**
Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
- KIMBALL, R. B.**
Apparatus for remote handling of materials
[NASA-CASE-LAR-10634-1] c 37 N74-18123
- KINARD, W. H.**
Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322
- KINARD, WILLIAM H.**
Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
- KINARD, WILLIAM H.**
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
- KINARD, WILLIAM H.**
Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
- KINARD, WILLIAM H.**
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
- KINARD, WILLIAM H.**
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
- KINARD, WILLIAM H.**
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412
- KINELL, D. K.**
Four phase logic systems
[NASA-CASE-MSC-14240-1] c 33 N75-14957
- KING, C. B.**
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
- KING, C. B.**
Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
- KING, C. B.**
Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721
- KING, DAVID Q.**
Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
- KING, GUY L.**
High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489
- KING, GUY L.**
Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390
- KING, H. J.**
Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
- KING, H. M.**
Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
- KING, JULIAN V.**
Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
- KING, R. B.**
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495
- KING, R. B.**
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
- KING, R. F.**
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
- KING, R. W.**
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
- KING, R. W.**
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
- KING, W. L.**
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
- KINKEAD, REBECCA L.**
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
- KINKEL, J. F.**
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
- KINNARD, K. F.**
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
- KINO, G. S.**
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
- KINSEL, R. C.**
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
- KINZLER, J. A.**
Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
- KIRCHMAN, E. J.**
Surface finishing
[NASA-CASE-MSC-12631-1] c 24 N77-28225
- KIRCHMAN, E. J.**
Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
- KIRCHMAN, E. J.**
Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
- KIRBY, C. A.**
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
- KIRBY, C. A.**
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
- KIRCHMAN, E. J.**
Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
- KIRSTEN, C. C.**
Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701
- KIS, G.**
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
- KISSEL, R. R.**
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
- KISSEL, R. R.**
Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
- KISSEL, R. R.**
Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
- KISSEL, RALPH R.**
Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959
- KISSEL, R. R.**
Rateometer
[NASA-CASE-MFS-20418] c 14 N73-24473
- KISZKO, W.**
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
- KITTS, W. T.**
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
- KLECHKE, E. W.**
Nickel aluminum coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
- KLEIN, E.**
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
- KLEIN, E. L.**
Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788
- KLEIN, M. G.**
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
- KLEINBERG, L. L.**
Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
- KLEINBERG, L. L.**
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
- KLEINBERG, L. L.**
Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
- KLEINBERG, L. L.**
Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
- KLEINBERG, L. L.**
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
- KLEINBERG, L. L.**
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
- KLEINBERG, L. L.**
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
- KLEINBERG, L. L.**
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
- KLEINBERG, L. L.**
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
- KLEINBERG, L. L.**
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
- KLEINBERG, LEONARD L.**
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
- KLEINBERG, LEONARD L.**
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
- KLEINBERG, LEONARD L.**
Reflection oscillators employing series resonant crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635
- KLEINROCK, L.**
Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928
- KLEINROCK, L.**
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
- KLIMA, S. J.**
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
- KLIME, A. J.**
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
- KLIME, A. J., JR.**
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
- KLINGMAN, E. E., III**
Apparatus for calibrating an image dissector tube
[NASA-CASE-MFS-22208-1] c 33 N75-26244
- KLINGMAN, E. E., III**
Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935
- KLISCH, J. A.**
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
- KLOC, I.**
Penetrometer
[NASA-CASE-NPO-11103-1] c 35 N77-27367
- KNAPP, M. H.**
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
- KNAPPE, W.**
Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
- KNECHTEL, E. D.**
Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439
- KNECHTEL, E. D.**
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
- KNOELL, A. C.**
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
- KNOELL, A. C.**
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420

- KNOOS, S. P.**
Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245
- KO, W. L.**
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- KOBAYASHI, H. S.**
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
- KOBAYASHI, HERBERT S.**
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280
- KOBAYASHI, H. S.**
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
- KOCH, E. F.**
Expulsion bladder-equipped storage tank structure Patent
[NASA-CASE-XNP-00612] c 11 N70-38182
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
- KOCH, JOHN, JR.**
Plug-type heat flux gauge
[NASA-CASE-LEW-14967-1] c 35 N91-31608
Method of producing a plug-type heat flux gauge
[NASA-CASE-LEW-14967-2] c 35 N92-22038
- KOCH, K. F.**
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
- KOCH, N. G.**
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
- KOCZELA, L. J.**
Adaptive voting computer system
[NASA-CASE-MSC-19392-1] c 62 N74-14920
- KODA, N. J.**
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
- KODIS, R. D.**
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
- KOENIG, DAVID G.**
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
- KOEPF, G. A.**
Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
- KOFEL, W. K.**
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
- KOGER, THOMAS L.**
Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691
- KOH, J. L.**
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- KOHL, W. H.**
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
- KOJIMA, G. K.**
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
- KOJIRO, D. R.**
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
- KOLBLY, R. B.**
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c 07 N72-11150
- KOLBY, R. B.**
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
- KOLIAD, K. M.**
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
- Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
- KOLOBOFF, G. J.**
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
- KOLSTEE, H. M.**
Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
- KONIGSBERG, E.**
Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c 17 N76-29347
- KOONTZ, STEVEN**
Method for anisotropic etching in the manufacture of semiconductor devices
[NASA-CASE-MSC-21631-1] c 75 N91-32947
- KOONTZ, STEVEN L.**
Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MSC-21487-1] c 25 N90-16887
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243
- KOPELSON, S.**
Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
- KOPETSKI, F. J.**
Ring counter
[NASA-CASE-XGS-03095] c 09 N89-27463
- KOPIA, L. P.**
Transmitting and reflecting diffuser
[NASA-CASE-LAR-10385-2] c 70 N74-13436
Transmitting and reflecting diffuser
[NASA-CASE-LAR-10385-3] c 74 N78-15879
- KORABOWSKI, J. J.**
Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
- KORB, C. L.**
Method of and apparatus for measuring temperature and pressure
[NASA-CASE-GSC-12558-1] c 36 N85-21639
- KORB, LARRY**
Edge technique for measurement of laser frequency shifts including the Doppler shift
[NASA-CASE-GSC-13343-1] c 36 N91-28557
- KORDEE, E. E.**
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
- KORNFIELD, D. M.**
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
- KORSCH, D. G.**
Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
- KORUS, R. A.**
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
- KORVIN, W.**
Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
- KOSCHMEDER, L. A.**
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
- KOSMAHL, H. C.**
Multistage depressed collector for dual mode operation
[NASA-CASE-LEW-13282-1] c 33 N82-24415
- KOSMAHL, H. G.**
Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652
Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
Electron beam controller
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974
- Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
- KOSMAHL, HENRY G.**
Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N90-22724
- KOSMO, J. J.**
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
- KOSMO, JOSEPH J.**
Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498
Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091
- KOSSON, R. L.**
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
- KOTHE, E.**
Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680
- KOURTIDES, D. A.**
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Polymer of phosphorylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
- KOURTIDES, DEMETRIUS A.**
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl) methyl-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
The 1-(diorganooxy phosphonyl) methyl-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042
The 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236
- KOVELL, S. P.**
Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
- KOYBAYASHI, H. S.**
Unbalanced quadrature demodulator
[NASA-CASE-MSC-14840-1] c 32 N77-24331
- KOZIOL, J. S., JR.**
Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
- KRAMER, F.**
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
- KRAMER, J. S.**
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
- KRAMER, M.**
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961
- KRASIN, F. E.**
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

- KRATZER, R. H.**
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
- KRAUSE, F. R.**
Passive optical wind and turbulence detection system
Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
- KRAUSE, I. A.**
Satellite interlace synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
- KRAUSE, L. N.**
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
- KRAUSE, M. C.**
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
- KRAUSE, M. C.**
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
- KRAUSE, S. J.**
Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
- KRAUSE, S. J.**
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
- KRAUSHAAR, W. L.**
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
- KRAVITZ, M.**
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
- KRAY, W. D.**
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
- KREISMAN, W. S.**
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
- KRIEGER, H. C., JR.**
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
- KRIEGER, W. F.**
High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
- KRISHNAN, KUMAR**
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317
- KROES, ROGER L.**
Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968
- KROPP, C. J.**
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
- KRSEK, A., JR.**
Optical torqueometer Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
- KRUER, MARK ARTHUR**
Wide acceptance angle, high concentration ratio, optical collector
[NASA-CASE-MFS-28295-1] c 74 N91-13999
- KRUETZ, KENNETH K.**
High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N92-17895
- KRUPNICK, A. C.**
Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
- KRUPNICK, A. C.**
Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
- KRUPNICK, A. C.**
Nonflammable coating compositions
[NASA-CASE-MFS-20486-2] c 27 N74-17283
- KRUPNICK, A. C.**
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- KRUPNICK, A. C.**
Aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
- KUBACKI, R. M.**
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
- KUBACKI, R. M.**
Process for producing a well-adhered durable optical coating on an optical plastic substrate
[NASA-CASE-ARC-11039-1] c 74 N78-32854
- KUBICA, A. J.**
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
- KUBICZ, A. P.**
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
- KUBICZ, A. P.**
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-23129
- KUBICZ, A. P.**
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241

- KUBIK, C. F.**
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
- KUBIK, J. S.**
Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
- KUBOKAWA, C. C.**
Fastener apparatus Patent
[NASA-CASE-ARC-10140-1] c 15 N71-17653
- KUEBLER, M. E.**
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
- KUENZLY, J. D.**
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
- KUGATH, D. A.**
Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
- KUHN, R. F., JR.**
Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
- KUHN, R. F., JR.**
Internally supported flexible duct joint
[NASA-CASE-MFS-19193-1] c 37 N75-19686
- KUHNS, P. W.**
Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
- KUMAR, D.**
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
- KUMAR, D.**
Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
- KUMAR, D.**
Amine terminated bisaspartamide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
- KUMAR, DEVENDRA**
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
- KUMAR, DEVENDRA**
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
- KUMAR, RAJENDRA**
Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
- KUMAR, RAJENDRA**
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341
- KUMAR, RAJENDRA**
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321
- KUMINECZ, J. F.**
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
- KUNZ, NANS**
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
- KUO, Y. S.**
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
- KUPPERIAN, J. E., JR.**
Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
- KURAL, M. H.**
Strain arrestor plate for fused silica tile
[NASA-CASE-MSC-14182-1] c 27 N76-14264
- KURIGER, W. L.**
Short range laser obstacle detector
[NASA-CASE-NPO-11856-1] c 36 N74-15145
- KURPLE, W.**
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
- KURTZ, G. W.**
Two-dimensional scanner apparatus
[NASA-CASE-MFS-25687-1] c 35 N84-22928
- KURTZ, R. L.**
Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
- KURTZ, R. L.**
Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324
- KURTZ, R. L.**
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
- KURTZ, R. L.**
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124

- KURTZ, R. L.**
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
- KURTZ, R. L.**
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N78-18402
- KURTZ, R. L.**
Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357
- KURTZ, R. L.**
Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447
- KURVIN, C. W.**
Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007
- KURYLO, M. J., III**
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
- KURZHALS, P. R.**
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
- KURZHALS, P. R.**
Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
- KUSHIDA, R. O.**
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
- KUSHIDA, R. O.**
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
- KUSHNICK, ANNE C.**
Apparatus and method for explosive bonding to edge of flyer plate
[NASA-CASE-LAR-14096-1] c 31 N91-31476
- KUSHNICK, ANNE C.**
Permanent wire splicing by an explosive joining process
[NASA-CASE-LAR-13825-1] c 31 N92-16162
- KUSHNICK, PETER W.**
Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527
- KUSHNICK, PETER W.**
Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182
- KWACK, EUG Y.**
Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N92-10609
- KWONG, H.**
The 1,2,4-oxadiazole elastomers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
- KWONG, H.**
Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
- KWONGS, H.**
Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
- Laumann, E. A.**
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
- LA RUSSA, F. J.**
Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
- LA VIGNA, T. A.**
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
- LABAW, CLAYTON C.**
Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N91-32926
- LACEY, R. E.**
Infusible silazane polymer and process for producing same
[NASA-CASE-XMF-02526-1] c 27 N79-21190
- LACKNER, H. G.**
Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223
- LACKNER, H. G.**
Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146
- LACY, L. L.**
Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
- LACY, L. L.**
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
- LACY, LEWIS L.**
Apparatus and method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944

- LAFAVER, A. E.**
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
- LAFLAME, D. T.**
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
- LAFLEUR, SHARON S.**
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
- LAGEN, NICHOLAS T.**
Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684
Liquid cooled supersonic total temperature probe
[NASA-CASE-LAR-14435-1-CU] c 09 N91-26159
Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586
- LAHMEYER, CHARLES R.**
Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310
- LAIACONA, F. P.**
Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
- LAINE, D. D.**
Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
- LAMAR, J. E.**
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
- LAMB, JAMES L.**
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
- LAMB, R. H.**
Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631
- LAMBE, JOHN J.**
Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
- LAMBSON, K. H.**
Pressure control valve
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
- LAMPERT, H. M.**
Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
- LAMPTON, M. L.**
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
- LANDAUER, F. P.**
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
- LANDAWER, F. P., JR.**
Multispectral imaging and analysis system
[NASA-CASE-NPO-13691-1] c 43 N79-17288
- LANDEL, R. F.**
Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429
Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573
Polymeric compositions and their method of manufacture
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- LANDES, H. S.**
Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172
- LANE, J. W.**
Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
- LANEY, C. C., JR.**
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
- LANFORD, W. E.**
Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180
Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
- LANG, R.**
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
- Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
- LANG, ROBERT J.**
Multiperiod-grating surface-emitting lasers
[NASA-CASE-NPO-17763-1-CU] c 36 N92-17862
Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899
- LANGE, GREGORY A.**
Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126
- LANGE, O. H.**
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
- LANGE, R. A.**
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
- LANGMUIR, R. V.**
Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325
- LANSING, F. L.**
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474
- LANSING, J. C., JR.**
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
- LANTZ, E.**
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
- LAPOINTE, DONAT J. E.**
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
- LARK, R. F.**
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
- LARMER, J. W.**
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
- LARSON, L. L.**
Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
- LARSON, T. P.**
Filter regeneration systems
[NASA-CASE-MSC-14273-1] c 34 N75-33342
- LATHAM, E. A.**
The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
- LATTO, W. T., JR.**
Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
- LAU, K. Y.**
Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029
- LAUB, GEORGENE H.**
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631
- LAUB, J. H.**
Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
- LAUDENSLAGER, J. B.**
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
- LAUDENSLAGER, JAMES B.**
Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961
- LAUDERDALE, W. R.**
Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222
- LAUDENSLAGER, J. B.**
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
- LAUE, E. G.**
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
- LAUE, ERIC G.**
Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
- LAUE, H. H.**
Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
- LAUE, J. H.**
Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
- LAUGHLIN, C. R., JR.**
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-GSC-10083-1] c 10 N71-20841
Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
- LAURENCE, J. C.**
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
- LAURIE, R. O.**
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
- LAUSTEN, M. F.**
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
- LAUVER, R. W.**
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
- LAVIGNE, R. C.**
Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
- LAWHITE, E.**
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489
- LAWING, P. L.**
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
- LAWRENCE, E. D.**
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
- LAWRENCE, T. R.**
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
- LAWSON, A. G.**
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
- LAWSON, B. D.**
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
- LAWSON, BOBBY E.**
Thermally isolated deployable shield for spacecraft
[NASA-CASE-MFS-28524-1] c 18 N91-25167

- LAWSON, D. D.**
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
- LAWTON, RUSSELL A.**
Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014
- LAYLAND, J. W.**
Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
- LE BEL, P. J.**
Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
- LE DOUX, F. N.**
Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
- LE VAY, K. H.**
Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
- LEATHERWOOD, J. D.**
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445
- LEAVY, W. A.**
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Antenna deployment mechanism for use with a spacecraft
[NASA-CASE-GSC-12331-1] c 18 N80-14183
- LEBLANC, L. P.**
Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
- LEDBETTER, F. E., III**
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
- LEDBETTER, FRANK E., III**
Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491
- LEDERICH, RICHARD J.**
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
- LEDUC, HENRY G.**
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-2-CU] c 76 N92-22040
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-3-CU] c 76 N92-22041
- LEE, ANGELENE M.**
Sharps container
[NASA-CASE-MSC-21776-1] c 31 N92-17913
- LEE, C. E.**
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
- LEE, D. A.**
Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078
- LEE, D. H.**
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
- LEE, J. H.**
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
- LEE, J. S.**
High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
- LEE, M. C.**
Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
- Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943
- LEE, MARK C.**
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
Method and apparatus for producing microshells
[NASA-CASE-NPO-16635-1-CU] c 31 N91-32240
- LEE, R. D.**
Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240
Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
Ultrasonic biomedical measuring and recording apparatus
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Bio-isolated dc operational amplifier
[NASA-CASE-ARC-10596-1] c 33 N74-21851
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
Scanning seismic intrusion detection method and apparatus
[NASA-CASE-ARC-11317-1] c 35 N83-34272
- LEE, ROBERT D.**
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
- LEE, S. H.**
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
- LEE, S. Y.**
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
- LEE, SHENG Y.**
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Cellular thermosetting fluorodiepoxide polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
- LEE, SUKHAN**
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
- LEE, W. S.**
Surface finishing
[NASA-CASE-MSC-12631-1] c 24 N77-28225
Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
- LEEB, W. R.**
Method and apparatus for splitting a beam of energy
[NASA-CASE-GSC-12083-1] c 73 N78-32848
- LEEPER, W. A.**
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
- LEES, W. L.**
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
- LEFFKE, W. O.**
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
- LEFTWICH, R. F.**
Multi-lobe scan horizon sensor Patent
[NASA-CASE-XGS-00809] c 21 N70-35427
- LEGER, L. J.**
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
Thermal insulation attaching means
[NASA-CASE-MSC-12619-2] c 27 N79-12221
- LEHMANN, E. N.**
Fluid thrust control system
[NASA-CASE-XMF-05964-1] c 20 N79-21124
- LEHOCZKY, SANDOR L.**
Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544
Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
- Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896
Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968
- LEIBECKI, H. F.**
Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150
- LEIBERT, C. H.**
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
- LEIBOWITZ, L. P.**
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071
- LEIGHTY, BRADLEY D.**
Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942
Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392
- LEININGER, D. B.**
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
- LEINKRAM, C. Z.**
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
- LEIPOLD, M. H.**
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
- LEISER, D. B.**
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Fibrous refractory composite insulation
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Adjustable high emittance gap filler
[NASA-CASE-ARC-11310-1] c 27 N82-24339
High temperature glass thermal control structure and coating
[NASA-CASE-ARC-11164-1] c 44 N83-34448
- LEISER, DANIEL B.**
Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026
- LEISS, A.**
Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386
- LEMCOE, M. M.**
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
- LEMONS, F. R.**
Metallic hot wire anemometer
[NASA-CASE-ARC-10911-1] c 35 N77-20400
- LEMONSON, P. H.**
Broadband modified turnstile antenna Patent
[NASA-CASE-MSC-12209] c 09 N71-24842
- LENAHAN, D. T.**
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
- LENETT, S. D.**
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
- LENNON, C. L.**
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
- LENT, W. E.**
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
- LENTSCH, STEVEN E.**
Whole body cleansing agent
[NASA-CASE-MSC-21589-1] c 54 N91-16566
- LEON, H. A.**
Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
- LEONARD, E. T.**
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
- LEPP, D. R.**
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
- LERMA, GUILLERMO**
Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
Flexible diaphragm-extreme temperature usage
[NASA-CASE-MSC-20797-2] c 35 N91-21494
- LENER, N. R.**
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789

- LERNER, NARCINDA R.**
Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258
- LERNER, T.**
Modulator for tone and binary signals
[NASA-CASE-GSC-11743-1] c 32 N75-24981
- LESH, J. R.**
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
- LESH, JAMES R.**
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
- LESKO, J. G., JR.**
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
- LESKY, EDWARD S.**
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
- LESNIEWSKI, R. J.**
Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
- LESSLEY, R. L.**
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
- LESSMANN, G. G.**
Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265
- LEUNG, EMILY W.**
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
- LEVIN, H.**
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
Thermal reactor
[NASA-CASE-NPO-14369-1] c 44 N83-10501
- LEVIN, K. L.**
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
- LEVINE, M. W.**
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
- LEVINE, S. R.**
Fused silicide coatings containing discrete particles for protecting niobium alloys
[NASA-CASE-LEW-11179-1] c 27 N76-16229
Corrosion resistant thermal barrier coating
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
- LEVINSON, M.**
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
- LEVIS, C. A.**
Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359
- LEVITON, DOUGLAS B.**
Control system for ruling blazed, aberration corrected diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N92-10186
- LEVY, G. S.**
Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
- LEWICKI, G. W.**
High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421
Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246
- Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678
- LEWIS, B. F.**
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429
- LEWIS, B. W.**
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097
Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360
- LEWIS, BLAIR F.**
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
- LEWIS, D. J.**
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143
- LEWIS, G. W.**
Subminiature insertable force transducer
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
- LEWIS, J. R.**
Automatic transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
- LEWIS, MARIAN L.**
Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N91-13860
- LEWIS, R.**
High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
- LEWIS, T. L.**
Acoustical transducer calibrating system and apparatus
[NASA-CASE-FRC-10060-1] c 14 N73-27379
- LEWYN, L. L.**
Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045
- LI, LARRY C. H.**
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542
- LI, S. P.**
Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
- LIANG, RANTY H.**
Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121
- LIBBEY, C. E.**
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
- LIBBY, J. N.**
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
- LIBBY, W. F.**
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753
Continuous plasma laser
[NASA-CASE-XNP-04167-3] c 36 N77-19416
- LIBEROTTI, J.**
Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
- LICHTENBERG, CHRISTOPHER**
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
- LICHTENBERG, CHRISTOPHER L.**
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568
- LIEBERMAN, S.**
Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363
- LIEBERT, C. H.**
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
- LIEBERT, CURT H.**
Method of producing a plug type heat flux gauge
[NASA-CASE-LEW-14967-2] c 35 N91-23460
Plug-type heat flux gauge
[NASA-CASE-LEW-14967-1] c 35 N91-31608
Method of producing a plug-type heat flux gauge
[NASA-CASE-LEW-14967-2] c 35 N92-22038
- LIENEWEG, U.**
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231
- LIERKE, ERNST G.**
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
- LIGHT, D. J.**
Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412
- LIGHTSEY, G. R.**
Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
- LIGHTSEY, GEORGE R.**
Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MSC-21936-1] c 25 N92-19486
- LILLEY, A. E.**
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
- LIM, L. Y.**
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
- LIN, E. I. H.**
Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
- LIN, HUNG C.**
Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522
- LIN, STEVEN H.**
High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841
- LIN, TRUE-LON**
Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N91-21434
Formation of self-aligned guard rings for monolithic Schottky-barrier diode arrays
[NASA-CASE-NPO-17734-1-CU] c 33 N92-10146
Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561
- LINDBERG, J. G.**
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-NXP-05524] c 33 N71-24876
- LINDBERG, R. A.**
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265
- LINDERFELT, H. R.**
An airlock
[NASA-CASE-MFS-20922] c 31 N72-20840
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
- LINDSEY, J. F., III**
Flexible blade antenna Patent
[NASA-CASE-NPO-10844] c 09 N71-18720
- LINDSEY, R. S., JR.**
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515
- LINDSEY, W. C.**
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
- LINDSEY, W. F.**
Stereo photomicrography system
[NASA-CASE-LAR-10176-1] c 14 N72-20380

LINEBACK, L. D.

Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584

LINFORD, R. M. F.

Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

LING, A. C.

Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

LING, S. C.

Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon
Patent
[NASA-CASE-XGS-01881] c 09 N70-40123

LINGLE, J. T.

Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470

LINIOR, W. I.

Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125

LINKER, JAMES F.

Blind fastening apparatus
[NASA-CASE-LAR-14542-1] c 37 N92-11354

LIPANOVICH, M. I.

Medical subject monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

LIPKE, D. W.

Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978

LIPKIS, R. R.

Electromagnetic radiation energy arrangement
[NASA-CASE-WOO-00428-1] c 32 N79-19186

LIPOMA, P. C.

Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300

Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468

Data storage, image tube type
[NASA-CASE-MSC-14053-1] c 60 N74-12888

System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

LIPPITT, M. W., JR.

Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925

Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

LIPSHITZ, A.

Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

LISAGOR, W. B.

Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616

Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

LISLE, R. V.

Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246

Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402

LISOVICZ, E. J.

High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206

LIST, W. F.

Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612

Phototransistor imaging system
[NASA-CASE-MFS-20809] c 23 N73-13660

LISTER, J. L.

Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105

LITANT, I.

Apparatus and method for separating a semiconductor water Patent
[NASA-CASE-ERC-10138] c 26 N71-14354

Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910

LITCHFORD, G. B.

Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211

LITTLE, B. O.

Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125

LITTLE, BRUCE D.

Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409

LITTLE, R. E.

Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301

LITTLEJOHN, D. P.

High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842

LIU, C. C.

Method and device for the detection of phenol and related compounds
[NASA-CASE-LEW-12513-1] c 25 N79-22235

LIU, F. F.

Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015

LIU, HOWARD T.

Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693

LIU, HUA KUANG

Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301

LIU, HUA-KUANG

Large TV display system
[NASA-CASE-NPO-16932-1-CU] c 33 N87-15413

Real-time image difference detection using a polarization rotation spatial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305

Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078

Real time pre-detection dynamic range compression
[NASA-CASE-NPO-18098-1-CU] c 74 N91-23890

Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918

LIU, J. K.

Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

LIU, JOHN K.

MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685

Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517

Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N92-22035

LIU, K. Y.

Pipelined digital SAR azimuth correlator, using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

LIU, TSUEN-HSI

Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998

Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-17675

LIVERMORE, S. F.

Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305

LLEWELIN, WILLIAM R.

Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037

LLOYD, W. B.

Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537

LOCH, F. J.

Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696

LOCKARD, M. L.

Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573

LOCKMAN, C. S.

Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563

LOCKWOOD, V. E.

Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286

Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858

Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010

LOFTIN, L. K., JR.

Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287

LOFTIN, R. BOWEN

System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944

LOGAN, K. E.

Active lamp pulse driver circuit
[NASA-CASE-GSC-12566-1] c 33 N83-34189

LOGAN, W. R.

Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237

LOH, G. M.

Medical subject monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

LOHR, J. J.

Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486

LOKERSON, D. C.

Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882

X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517

Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309

LOMAX, CURTIS

Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286

LOMBARDI, F.

Head for high speed spinner having a vacuum chuck
[NASA-CASE-NPO-15227-1] c 37 N81-33482

Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493

LONBORG, J. O.

Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855

LONG, E. R., JR.

Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210

LONG, H. R.

Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334

LONG, W. C.

Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223

Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515

LONGYEAR, W. D.

Omnidirectional acceleration device Patent
[NASA-CASE-HON-10780] c 14 N71-30265

LOO, S.

Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756

LOOK, G. F.

Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778

LOOP, R. W.

Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445

LOOSE, J. D.

Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c 34 N74-27861

LOPEZ, A. E.

Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089

LOPEZ, OSVELDO F.

Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374

LORD, H. C., III

Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146

LORELL, K. R.

High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622

All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399

LOTHSCHUETZ, F. X.

Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

LOTT, D. R.

Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550

LOUGHEAD, A. G.

Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752

LOUGHEAD, T. E.

Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

LOUNSBERRY, E. D.

Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380

LOYALL, D. D.

Electric field measuring and display system
[NASA-CASE-KSC-10731-1] c 33 N74-27862

- LOVELACE, A. M.**
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
- LOVELAND, ROHAN C.**
Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095
- LOVELL, J. S.**
Portable breathing system
[NASA-CASE-MSC-16182-1] c 54 N80-10799
- LOVELL, R. R.**
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
- LOVELOCK, J. E.**
Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
- LOVINGER, D. N.**
Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160
- LOWE, E. G.**
Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
- LOWELL, C. E.**
Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
- LOWELL, CARL E.**
Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
- LOWEN, I. B.**
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379
- LOWERY, J. R.**
Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c 44 N76-14595
- LOWRY, J. G.**
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
- LOY, C. A.**
Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
- LOYD, C.**
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
- LUBOWITZ, H. R.**
Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
- LUCAS, C. H.**
Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-18345
- LUCERO, D. P.**
Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
- LUCHT, R. A.**
A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520
- LUCY, M. H.**
Molded composite pyrogen igniter for rocket motors
[NASA-CASE-LAR-12018-1] c 20 N78-24275
- LUCY, MELVIN H.**
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
- LUDWIG, A. C.**
Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676
Singly-curved reflector for use in high-gain antennas
[NASA-CASE-NPO-11361] c 07 N72-32169
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
- LUDWIG, L. P.**
Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
Spiral groove seal
[NASA-CASE-LEW-10326-3] c 37 N74-10474
- Spiral groove seal
[NASA-CASE-XLE-10326-4] c 37 N74-15125
High speed, self-acting shaft seal
[NASA-CASE-LEW-11274-1] c 37 N75-21631
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
Counter pumping debris excluder and separator
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
- LUEBBERS, S. S.**
Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646
Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
- LUEBERING, G. W.**
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
- LUKENS, F. E.**
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
- LUM, H.**
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
- LUNA, PHILLIP M.**
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
- LUNCE, R. S.**
Medical subject monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
- LUND, G. F.**
Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
- LUND, W. C.**
Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766
- LUNDQUIST, J. R.**
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
- LUPTON, M. W.**
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276
- LURIE, BORIS J.**
Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951
Torque sensor having a spoked sensor element support structure
[NASA-CASE-NPO-17461-1-CU] c 35 N91-17350
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380
- LUSHBAUGH, W. A.**
Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
- LUTES, G. F.**
Precise RF timing signal distribution to remote stations
[NASA-CASE-NPO-14749-1] c 32 N81-14186
- LUTES, G. F., JR.**
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
- Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029
- LUTES, GEORGE F.**
Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N91-27957
- LUTUS, P.**
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
- LUTZ, E. B.**
Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520
- LYLAND, J. W.**
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
- LYNCH, DANA H.**
Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811
- LYNCH, E. J.**
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
- LYNCH, T. L.**
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
- LYON, W. E.**
Optical range finder having nonoverlapping complete images
[NASA-CASE-MSC-12105-1] c 14 N72-21409
- LYONS, JOHN C.**
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271

M

- MA, L. N.**
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
- MACCONNELL, J. W.**
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
- MACCONOCHIE, I. O.**
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
- MACCONOCHIE, IAN O.**
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035
- MACDAVID, K. S.**
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
- MACDORAN, P. F.**
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
- MACFADDEN, J. A.**
Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
- MACGLASHAN, W. F.**
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
- MACGLASHAN, W. F., JR.**
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Reinforcing means for diaphragms Patent
[NASA-CASE-NPO-01962] c 32 N70-41370
High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447

- Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
- High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
- Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
- MACKAY, C. A.**
Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
- MACLEOD, N. H.**
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
- MACVEIGH, G. E.**
Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172
- MADAN, HERB S.**
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
- MADARAS, ERIC I.**
A method and apparatus for indicating disbands in joint regions
[NASA-CASE-LAR-14626-1] c 38 N92-17859
- MADDOX, J. W.**
Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17451
- MADEY, J. M.**
Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064
- Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
- Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
- MADISON, I. B.**
Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
- MADSEN, B.**
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
- MADZSAR, GEORGE C.**
Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N91-32167
- MAESTRELLO, L.**
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
- MAESTRELLO, LUCIO**
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562
- MAHAN, J. C.**
Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
- MAIDEN, D. L.**
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
- Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
- MAILLOUX, R. J.**
Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
- Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
- Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
- MAJOR, C. J.**
Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
- MALARIK, DIANE C.**
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566
- MALEKI, LUTFOLLAH**
Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791
- MALIN, JANE T.**
Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741
- MALLING, L. R.**
Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807
- Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
- MALMBERG, J. H.**
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
- MALONE, L. B.**
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
- MANATT, S. L.**
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
- MANDEL, C. H.**
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
- MANDELKORN, J.**
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
- Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
- Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
- Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
- Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
- Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
- MANDELL, A.**
Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720
- MANFREDI, LAWRENCE**
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495
- MANGALAM, SIVARAMAKRISHNAN M.**
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
- Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596
- MANGES, D. R.**
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
- MANGION, C.**
System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
- MANGOLD, D. W.**
Medical subject monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
- MANHART, PAUL K.**
Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488
- Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N91-32923
- Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N92-22034
- MANN, C. W.**
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
- MANN, FRANKLIN D.**
Universal precision sine bar attachment
[NASA-CASE-MFS-28253-1] c 37 N89-28831
- MANN, W. A.**
Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652
- MANNING, C. R.**
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
- MANNING, C. R., JR.**
Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
- Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
- MANNING, ROBERT M.**
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
- MANOLI, R.**
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
- MANSOUR, M. N.**
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
- MANTLER, R. L.**
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
- MANUS, E. A.**
Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
- Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172
- Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
- MANZO, M. A.**
Polyvinyl alcohol battery separator containing inert filler
[NASA-CASE-LEW-13556-1] c 44 N81-27615
- Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
- MAPLE, W. E.**
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
- MAPLES, H. E.**
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
- MARAK, R. J.**
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
- MARCELL, G. V.**
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
- Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227
- MARCHELLO, JOSEPH M.**
Process for application of powder particles to filamentary materials
[NASA-CASE-LAR-14231-1] c 24 N92-10070
- MARCUM, D. C., JR.**
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
- MARCUS, B. D.**
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
- MARCUS, H. L.**
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
- MAREK, C. J.**
Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
- Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
- MARGALIT, RUTH**
Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239
- MARGALIT, S.**
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305
- MARGOLIS, J. S.**
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
- Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
- Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
- Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
- MARGOSIAN, P. M.**
Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
- Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27699
- MARGRAF, H. J.**
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
- MARINOS, CHARALAMPUS**
Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
- MARKLEY, R. A.**
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
- MARLOW, M. O.**
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- MARLOW, R. E.**
System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395
- Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
- MARMOLEJO, JOSE**
EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879
- MAROPIS, N.**
Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
- MARRKLE, R. A.**
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
- MARRONI, M. A., JR.**
Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344

- Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
- Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
- Method of forming a root cord restrained convolute section
[NASA-CASE-MS-C-12398] c 05 N72-20098
- Restraint torso for a pressurized suit
[NASA-CASE-MS-C-12397-1] c 05 N72-25119
- MARSH, H. E., JR.**
Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
- Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
- Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236
- Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
- Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
- MARSH, H. W.**
Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469
- MARSHALL, F. E.**
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
- MARSHALL, J. H.**
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
- MARSHALL, T. N., JR.**
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
- MARSHALL, W. R.**
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787
- MARSIK, S. J.**
Selective nickel deposition
[NASA-CASE-LEW-10965-1] c 15 N72-25452
- Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
- Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
- MARTEL, R. J.**
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
- MARTIN, GLENN L.**
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
- MARTIN, J. A.**
Orbiter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161
- MARTIN, J. W.**
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
- MARTIN, JAMES A.**
Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298
- Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584
- Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481
- MARTIN, N. C.**
Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
- Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
- MARTIN, R. B.**
Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015
- MARTIN, S. C.**
Correlation type phase detector
[NASA-CASE-GSC-11744-1] c 33 N75-26243
- MARTIN, W. L.**
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
- Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
- Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207
- Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
- Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
- Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
- MARTINAGE, L. H.**
Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961
- MARTINECK, H. G.**
Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
- Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
- Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
- Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
- MARTONCHIK, J. V.**
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
- MARTUCCI, V. J.**
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
- MARTZ, E. L.**
Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
- MARVIN, I. E.**
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
- MARZEK, R. A.**
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
- MASCY, A. C.**
Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
- MASEK, T. D.**
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
- Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
- MASERJIAN, J.**
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
- Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
- Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761
- Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
- Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
- Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331
- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
- Chemical vapor deposition reactor
[NASA-CASE-NPO-13650-1] c 25 N79-28253
- Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
- Laser activated MTOs microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
- MASERJIAN, JOSEPH**
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
- Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
- MASLOWSKI, E. A.**
Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
- MASON, J. W.**
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
- MASON, R. J.**
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
- MASON, R. M.**
Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
- MASSUCCO, A. A.**
Non-flammable elastomeric fiber from a fluorinated elastomer and containing a halogenated flame retardant
[NASA-CASE-MS-C-14331-1] c 27 N76-24405
- Flame retardant spandex type polyurethanes
[NASA-CASE-MS-C-14331-2] c 27 N78-17213
- Process for spinning flame retardant elastomeric compositions
[NASA-CASE-MS-C-14331-3] c 27 N78-32262
- MATEER, G. C.**
Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364
- MATHENEY, J. L.**
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
- MATHUR, F. P.**
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
- MATSUHIRO, D. S.**
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915
- MATSUMOTO, Y.**
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
- MATSUMOTO, YUTAKA**
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
- Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
- MATTAUCH, R. J.**
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
- Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
- Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789
- MATTAUCH, ROBERT J.**
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197
- MATTHEWS, F. R., JR.**
Lightweight, variable solidity knitted parachute fabric
[NASA-CASE-LAR-10776-1] c 02 N74-10034
- MATTHEWS, PAUL R.**
System for connecting fluid couplings
[NASA-CASE-MSC-26042-1-SB] c 37 N91-14613
- MATTHIES, LARRY H.**
Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864
- MATZEN, W. J.**
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
- MAUDGAL, S.**
Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
- Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
- MAULDIN, D. G.**
Contourograph system for monitoring electrocardiograms
[NASA-CASE-MS-C-13407-1] c 10 N72-20225
- MAXWELL, H. G.**
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
- MAXWELL, M. S.**
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
- Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
- Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
- MAXWELL, M. W.**
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
- MAXWELL, R. F., JR.**
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
- MAXWELL, W. A.**
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-18076
- MAY, C. E.**
Selective nickel deposition
[NASA-CASE-LEW-10965-1] c 15 N72-25452
- Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
- Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
- Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
- MAYALL, S. D.**
Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
- MAYER, L. A.**
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
- Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
- MAYNARD, O. E.**
Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
- MAYNARD, RONALD S.**
Fluidic momentum controller
[NASA-CASE-MS-C-20906-2] c 35 N89-15379
- MAYNE, R. C.**
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573

- MAYO, E. E.**
Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631
- MAYO, J. W.**
Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
- MAYO, R. F.**
Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
- MAZARIS, G. A.**
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
- MAZEL, DAVID S.**
Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
- MAZER, L.**
Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
- MAZIQUE, J. C.**
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
- MAZUR, J. T.**
Telescoping columns
[NASA-CASE-LAR-12195-1] c 31 N81-27324
- MCAFFEE, D. F.**
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
- MCALEXANDER, B. T.**
Laser head for simultaneous optical pumping of several dye lasers
[NASA-CASE-LAR-11341-1] c 36 N75-19655
- MALISTER, KENNETH W.**
Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811
- MCALIFFE, PATRICK S.**
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
- MCBRAYER, R. O.**
Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096
- MCBRYAR**
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
- MCBRYAR, H.**
Reconstituted asbestos matrix
[NASA-CASE-MS-12568-1] c 24 N76-14204
- MCCAIG, J. C.**
Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
- MCCALLUM, J.**
Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
- MCCAMPBELL, W. M.**
Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
- MCCANDLESS, B. II**
Connection system
[NASA-CASE-MS-20319-1] c 37 N85-21649
- MCCANDLESS, L. C.**
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
- MCCANN, D. H.**
Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
- MCCANN, R. J.**
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
- MCCARTHY, D. M.**
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356
- MCCARTY, J. L.**
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
- MCCAUL, P. F.**
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
- MCCHESENEY, J. F., JR.**
High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
- MCCHESENEY, J. R.**
Modulator for tone and binary signals
[NASA-CASE-GSC-11743-1] c 32 N75-24981
- MCCLEESE, D. J.**
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
- MCCLENAHAN, J. O.**
High speed shutter
[NASA-CASE-ARC-10516-1] c 70 N74-21300
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof
[NASA-CASE-ARC-10593-1] c 33 N74-27682
- MCCUNEY, DONALD SCOTT**
O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N91-21175
- MCCUNEY, W. R.**
The 2 deg/90 deg laboratory scattering photometer
[NASA-CASE-GSC-12088-1] c 74 N78-13874
- MCCLUNG, C. E.**
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
- MCCCLURE, J. C.**
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
- MCCCLURE, S. R.**
Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
- MCCONAUGHEY, R. T.**
Star scanner
[NASA-CASE-GSC-11569-1] c 89 N74-30886
- MCCONNELL, J. C.**
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
- MCCONNELL, ROBERT L.**
Driven shielding capacitive proximity sensor
[NASA-CASE-GSC-13377-1] c 63 N91-28785
- MCCORMACK, W.**
Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874
- MCCORMICK, C. T., JR.**
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
- MCCRAW, D. L.**
Emergency escape system Patent
[NASA-CASE-MS-12086-1] c 05 N71-12345
- MCCREA, F. E.**
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
- MCCREARY, R. A.**
Parallel motion suspension device Patent
[NASA-CASE-XNP-01567] c 15 N70-41310
- MCCREIGHT, L. R.**
Electrophoretic sample insertion
[NASA-CASE-MFS-21395-1] c 25 N74-26948
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
- MCCUSKER, T. J.**
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
- MCDANELS, D. L.**
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
- MCDARIS, R. A.**
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
- MCDONALD, R. T.**
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
- MCDONALD, G. E.**
Nuclear fuel elements
[NASA-CASE-XLE-00209] c 22 N73-32528
Selective coating for solar panels
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
Method of forming oxide coatings
[NASA-CASE-LEW-13132-1] c 27 N83-29388
- MCDONALD, R. T.**
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
- MCDUGAL, A. R.**
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958
Zero torque gear head wrench
[NASA-CASE-NPO-13059-1] c 37 N76-20480
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
- MCKERLEAN, E. A.**
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
- MCFADIN, L. W.**
Platinum resistance thermometer circuit
[NASA-CASE-MSC-12327-1] c 35 N77-27368
- MCGANNON, W. J.**
Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
- MCGEEHEE, J. R.**
Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
- MCGINNESS, H. D.**
Suspension system for a wheel rolling on a flat track
[NASA-CASE-NPO-14395-1] c 37 N82-21587
- MCGOUGH, J. T.**
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
- MCHAFFIE, D. J.**
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
- MCHATTON, A. D.**
Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
Nozzle extraction process and handmeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
- MCHENRY, R. J.**
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
- MCHENRY, T. F.**
Miniature carbon dioxide sensor and methods
[NASA-CASE-MS-13332-1] c 14 N72-21408
- MCHUGH, D. P.**
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
- MCINTOSH, M. J.**
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
- MCKANNAN, EUGENE C.**
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940

- MCKAY, R. A.**
Combuster
[NASA-CASE-NPO-13958-1] c 25 N79-11151
- MCKEE, C. W.**
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
- MCKENNA, J. F., JR.**
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504
- MCKENNA, R. T.**
Automatic character skew and spacing checking network
[NASA-CASE-GSC-11925-1] c 33 N76-18353
- MCKENZIE, R. L.**
Diatomic infrared gasdynamic laser
[NASA-CASE-ARC-10370-1] c 36 N75-31426
- MCKEOWN, D.**
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MSC-23405-1] c 26 N77-29260
- MCKEVITT, F. X.**
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
- MCKINNEY, R. L.**
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
- MCKINNON, R. A.**
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
- MCLAIN, J. H.**
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
- MCLAUCHLAN, J. M.**
Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
Optical fiber coupling method and apparatus
[NASA-CASE-NPO-15464-1] c 74 N85-29749
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
- MCLEAN, F. E.**
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
- MCLEAN, WILLIAM**
EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879
- MCLEOD, KATHLEEN A.**
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197
- MCLYMAN, C. W. T.**
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928
- MCLYMAN, W. T.**
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539
- MCNAMEN, JOHN P.**
Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126
- MCMASTER, L. R.**
Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
- MCNEAR, M. F.**
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
- MCNUTT, W. C.**
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
- MCRONALD, A. D.**
Thin film gauge
[NASA-CASE-NPO-10617-1] c 35 N74-22095
- MCSMITH, D. D.**
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
- MCSMITH, DWIGHT D.**
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982
- MCSTAY, J. J.**
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
- MCWILLIAMS, I. G.**
Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
- MCWITHEY, R. R.**
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
- MEAD, D. C.**
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
- MEADOR, MARY ANN**
Ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N91-15402
- MEADOR, T. G., JR.**
Light shield and cooling apparatus
[NASA-CASE-LAR-10089-1] c 34 N74-23066
- MEALY, G. E.**
Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
- MEDCALF, W. A.**
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
- MEEHAN, RICHARD**
Portable dynamic fundus instrument
[NASA-CASE-MSC-21675-1] c 52 N91-13865
- MEINEL, A. B.**
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1-CU] c 74 N86-33138
- MEINEL, M. P.**
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1-CU] c 74 N86-33138
- MEINTEL, A. J., JR.**
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
- MEISENHOLDER, G. W.**
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
- MEISSINGER, H. F.**
Method of and device for determining the characteristics and flux distribution of micrometeorites
[NASA-CASE-NPO-12127-1] c 91 N74-13130
- MELAMED, L.**
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
- MELFI, L. T., JR.**
Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
- MELLARS, B.**
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
- MELTON, PATRICK B.**
Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
- MELUGIN, J. F.**
Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MSC-14219-1] c 32 N74-27612
- MELVILLE, R. D. S.**
Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11945-1] c 36 N76-18427
- MENEFEE, E. O.**
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
- MENGES, M. J.**
Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721
- MENICHELLI, V. J.**
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
- MENTZER, C. A.**
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
- MENZIES, R. T.**
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
- MERRHAV, S. J.**
Autonomous navigation system
[NASA-CASE-ARC-11257-1] c 04 N81-21047
- MERLEN, M. M.**
Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
- MERRBAUM, S.**
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
- MERRICK, V. K.**
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
- MERRILL, J. T., IV**
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
- MESCHTER, PETER**
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
- MESSINEO, S. V.**
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
- MESSNER, A.**
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
- MESZAROS, G.**
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
- METCALFE, A. G.**
Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
- METZGER, A. E.**
Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491
- METZLER, A. J.**
Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
- MEYER, A. J., JR.**
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
- MEYER, J. A.**
Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326
- MEYER, J. F.**
Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
- MEYER, K. A.**
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
- MEYER, T. N.**
Method of producing silicon
[NASA-CASE-NPO-14382-1] c 31 N80-18231
- MEYERS, J. F.**
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
- MEYERS, JAMES F.**
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
- MEYN, ERWIN H.**
Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-14617

- MICALÉ, F. J.**
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
- MICHAEL, J. E.**
Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
- MICHAUD, R. B.**
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus
[NASA-CASE-MSC-18381-1] c 52 N81-28740
- MICHEL, R. E.**
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
- MICKA, E. Z.**
Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
- MICKELSEN, W. R.**
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
- MIDDLETON, DAVID B.**
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120
- MIDDLETON, J. H.**
Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223
- MIDDLETON, O.**
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
- MIDDLETON, R. L.**
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
- MIDDLETON, W. D.**
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
- MIERTSCHIN, J. L.**
Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
- MIKROYANNIDIS, J. A.**
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
- MIKROYANNIDIS, JOHN A.**
Fire and heat resistant laminating resins based on maleimide and citraconimido substituted 1-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751
Fire and heat resistant laminating resins based on maleimide and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
The 1-(diorganooxy phosphonyl) methyl-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
Fire and heat resistant laminating resin based on maleimide and citraconimido substituted 1-(diorganoxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042
The 1-(diorganoxyphosphonyl)-methyl-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Some 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
- MIKSZAN, D. P.**
Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
- MIKULAS, M. M., JR.**
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
- Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737
- MIKULAS, M., JR.**
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
- MIKULAS, MARTIN M., JR.**
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614
- MILAM, M. BRUCE**
Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N91-28582
- MILAM, MALCOLM B.**
J-hook latching device
[NASA-CASE-GSC-13200-1] c 37 N92-21500
- MILAM, MALCOLM BRUCE**
Connection space reduction mechanism
[NASA-CASE-GSC-13220-1] c 37 N91-21525
- MILDICE, J. W.**
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
- MILES, P. A.**
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
- MILES, R. T.**
Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667
- MILKULLA, V.**
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454
- MILLEN, E. W.**
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
- MILLER, A. J.**
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
- MILLER, ANDRE E.**
Thermally isolated deployable shield for spacecraft
[NASA-CASE-MFS-28524-1] c 18 N91-25167
- MILLER, B. A.**
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
- MILLER, C. D.**
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
- MILLER, C. E.**
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
- MILLER, C. G.**
Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581
Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238
Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525
- Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
- MILLER, D. P.**
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
- MILLER, E.**
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N89-18996
- MILLER, E. L.**
Electronic system for high power load control
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- MILLER, H. B.**
Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
Heat sensing instrument Patent
[NASA-CASE-XLA-01551] c 14 N71-22989
Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
- MILLER, IRVIN M.**
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270
- MILLER, J. A., JR.**
Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
- MILLER, J. C.**
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
- MILLER, J. E.**
Satellite interface synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
- MILLER, J. G.**
Ultrasonic calibration device
[NASA-CASE-LAR-11435-1] c 35 N76-15432
- MILLER, J. L.**
Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518
- MILLER, JAMES B.**
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N91-32511
- MILLER, P. C.**
Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
- MILLER, R. A.**
Corrosion resistant thermal barrier coating
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-2] c 27 N91-32229
- MILLER, ROBERT A.**
Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412
Method of applying a thermal barrier coating system to a substrate
[NASA-CASE-LEW-15020-2] c 24 N91-25202
- MILLER, TERESA V.**
Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793
Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N91-23933
- MILLER, W. E.**
Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841
- MILLER, WILLIAM E.**
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N92-21710
- MILLER, WILSON N.**
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N88-23941
- MILLIGAN, G. C.**
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925

- MILLIKEN, D. B.**
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
- MILLIKEN, J. F.**
Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
- MILLS, M. K.**
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
- MILLS, R. C., SR.**
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
- MILLS, S. M.**
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Apparatus for microbiological sampling
[NASA-CASE-LAR-11069-1] c 35 N75-12272
Automatic inoculating apparatus
[NASA-CASE-LAR-11074-1] c 51 N75-13502
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
Measurement of gas production of microorganisms
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677
- MILLY, J. J.**
Satellite despion device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
- MIN, NAMKUNG**
Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170
- MINA, CESAR**
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
- MINDERMAN, PETER A.**
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495
- MINEO, BETH**
Rapid quantification of an internal property
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
- MINEO, BETH A.**
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621
- MINKIN, H. L.**
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
- MINOTT, P. O.**
Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
- MINTER, E. J.**
Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454
- MINTON, F. R.**
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
- MINTON, U. O.**
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
- MIRTIKH, M. J.**
Modification of the electrical and optical properties of polymers
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569
- MIRTIKH, M. J., JR.**
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
- MIRTIKH, MICHAEL J.**
Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
- MISERENTINO, R.**
Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
- MITCHELL, D. K.**
Borescope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
- MITCHELL, F. R.**
Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
- MITCHELL, G. A.**
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
- MITCHELL, N. M.**
Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
- MITCHELL, V. M.**
Digital cardiometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
- MITCHUM, L. L., JR.**
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
- MIXSON, J. S.**
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
- MOACANIN, J.**
Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
- MOCKOVCIK, JOHN, JR.**
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
- MOECKEL, W. E.**
Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
- MOEDE, L. W.**
Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 08 N72-21200
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
- MOEN, W. K.**
Self-cycling fluid heater
[NASA-CASE-MSC-15567-1] c 33 N73-16918
- MOFFITT, F. L.**
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
- MOGAVERO, L. N.**
System and method for tracking a signal source
[NASA-CASE-HQN-10880-1] c 17 N78-17140
- MONAGHAN, R. C.**
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
- MONDT, J. F.**
Nuclear thermionic converter
[NASA-CASE-NPO-13121-1] c 73 N77-18891
- MONFORD, L. G., JR.**
Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
Multifunction audio digitizer
[NASA-CASE-MSC-13855-1] c 35 N74-17885
Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
- MONFORD, LEO G.**
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
- MONFORD, LEO G., JR.**
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N91-23490
Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 37 N91-24577
Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 31 N92-16161
End effector with astronaut foot restraint
[NASA-CASE-MSC-21721-1] c 54 N92-16559
- MONSON, D. J.**
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
- MONTEITH, J. H.**
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
- MONTEITH, L. K.**
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
- MONTGOMERY, L. C.**
Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
- MONTGOMERY, L. D.**
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
- MONTGOMERY, RAYMOND C.**
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
- MONTOYA, L. C.**
System for use in conducting wake investigation for a wing in flight
[NASA-CASE-FRC-11024-1] c 02 N80-28300
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
- MOODY, D. L., JR.**
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
- MOONEY, V.**
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
- MOOPENN, ALEXANDER W.**
Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
- MOORE, C. D.**
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
- MOORE, DENNIS R.**
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
- MOORE, H. D.**
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
- MOORE, R. C.**
Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375
- MOORE, R. L.**
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
- MOORE, T. C.**
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
- MOORE, T. J.**
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Diffusion welding in air
[NASA-CASE-LEW-11387-1] c 37 N74-18128
- MOORE, THOMAS C.**
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706
- MOORE, THOMAS C., SR.**
Flush mounting of thin film sensors
[NASA-CASE-LAR-14446-1] c 31 N91-28454
- MOORE, W. A.**
Journal bearings
[NASA-CASE-LEW-11076-1] c 37 N74-21061
Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
- MORALES, SERGIO**
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776
- MORANDO, J. A.**
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
- MORDECAI, T. T.**
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815

MORECROFT, J. H.

Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694

MORELLI, F. A.

Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897

Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461

MOREMAN, O. S., III

Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500

Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501

MORGAN, C. J.

Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083

MORGAN, GENE E.

Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586

Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168

MORGAN, I. T., JR.

Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284

MORGAN, J. E.

Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720

MORGAN, L. E.

Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323

MORGAN, W. C.

Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577

MORISSETTE, S.

Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461

MORRELL, G.

Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367

MORRIS, BRIAN G.

Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511

Tank gauging apparatus and method
[NASA-CASE-MSC-21059-3] c 35 N91-21495

Method for providing real-time control of a gaseous propellant rocket propulsion system
[NASA-CASE-MSC-21542-1] c 20 N92-15122

MORRIS, D. E.

Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151

Polymerizable disilanols having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030

MORRIS, J. F.

Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884

Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

High thermal power density heat transfer
[NASA-CASE-LEW-12950-1] c 34 N82-11399

Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596

Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179

MORRIS, J. R.

Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537

MORRIS, P. W.

Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423

MORRIS, THOMAS F.

Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601

MORRISSETTE, E. L.

Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

MORRISON, A. D.

Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922

MORRISON, ANDREW D.

Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882

Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286

Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868

Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700

Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070

Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N91-15898

Adjustable steam producing flexible orifice independent of fluid pressure
[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724

MORRISON, DENNIS R.

Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701

MORRISON, H. D.

Anti-fog composition
[NASA-CASE-MSC-13530-2] c 23 N75-14834

MORSE, C. P.

Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053

MORSE, H. ANDREW

Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

MORTENSEN, L. O.

Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411

MOSER, B. G.

Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226

Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025

Polymeric compositions and their method of manufacture
[NASA-CASE-NPO-10424-1] c 27 N81-24258

MOSER, J. C.

Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566

MOSIER, B.

Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346

Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002

Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120

MOSIER, J. R.

Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499

MOSKOVITZ, CARY A.

Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140

MOSSOLANI, D. L.

Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425

MOUNTVALA, A. J.

Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124

MOYER, X. W.

Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600

Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039

MOYERS, C. V.

System for sterilizing objects
[NASA-CASE-KSC-11085-1] c 54 N81-24724

MOYNIHAN, P. I.

Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144

MOYNIHAN, PHILIP I.

Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489

MROZ, T. S.

Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357

MUEHTER, P. P.

Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761

MUELLER, R. I.

Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474

MUELLER, R. L.

Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314

Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431

MUELLER, W. A.

Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236

Dialysis system

[NASA-CASE-NPO-14101-1] c 52 N80-14687

Sewage sludge additive

[NASA-CASE-NPO-13877-1] c 45 N82-11634

Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

MUGLER, S. W.

Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334

MULHERN, J. E., JR.

Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119

MULLEN, D. L.

Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554

Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808

MULLEN, L. O.

Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447

MULLEN, P. G.

Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428

MULLER, K.

Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318

MULLER, R. M.

Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495

MULLIKEN, R. F.

Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001

MUMOLA, P. B.

Laser head for simultaneous optical pumping of several dye lasers
[NASA-CASE-LAR-11341-1] c 36 N75-19655

MUNFORD, J. A.

Laser measuring system for incremental assemblies
[NASA-CASE-GSC-12321-1] c 36 N82-16396

MUNOZ, R. M.

High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042

Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594

MUNSON, R. E.

Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472

Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763

Continuous Fourier transform method and apparatus
[NASA-CASE-ARC-10466-1] c 60 N75-13539

MUNSON, R. E.

Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864

MURACA, R. F.

Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607

Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094

MURCH, R. M.

Metal containing polymers from cyclic tetrameric phenylphosphonitriamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363

MURPHY, A. J.

Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060

MURPHY, D. W.

Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488

Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097

MURPHY, F. L.

Bi-metallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929

MURPHY, J. P.

All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399

High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

MURPHY, W. J.

Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097

Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360

MURRI, DANIEL G.

Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390

MURTY, M. V. R. K.

Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003

MUSICK, R. O.

Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073

MUSSETT, E. W.

Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718

MYERS, D. A.

Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203

MYERS, I. T.

Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341

MYERS, W. N.

Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903

Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402

Spherical bearing
[NASA-CASE-MFS-23447-1] c 37 N79-11404

Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639

Resilient seal ring assembly with spring means applying force to wedge member
[NASA-CASE-MFS-25678-1] c 37 N84-11497

MYERS, W. NEILL

Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817

Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154

MYERS, WILLIAM N.

Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977

N**NAESETH, R. L.**

Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981

NAGANO, S.

Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377

Module failure isolation circuit for paralleled inverters
[NASA-CASE-NPO-14000-1] c 33 N79-24254

Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257

Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220

Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338

NAGASUBRAMANIAN, GANESAN

Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621

Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538

Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121

NAGLE, W. J.

Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625

Toroidal cell and battery
[NASA-CASE-LEW-12918-1] c 44 N81-24521

Additive for zinc electrodes
[NASA-CASE-LEW-13286-1] c 33 N84-14422

NAGY, K.

Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729

NAGY, KORNEL

Preloaded brake disc
[NASA-CASE-MSC-21132-1] c 37 N88-29181

Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492

Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N91-23493

NAIDITCH, S.

Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466

NAIL, WILLIAM L.

Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691

NAKADA, M. P.

Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041

NAKAMURA, H. H.

Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124

NAKANISHI, S.

Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422

Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694

Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642

Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781

Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27699

NAKANISHI, SHIGEO

Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

NAKICH, R. B.

Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009

Digital servo control of random sound test excitation
[NASA-CASE-NPO-11623-1] c 71 N74-31148

NAMKUNG, MIN

Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527

NANCE, H. M.

A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886

NAPLES, J. F.

Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803

NARASIMHAN, K. Y.

System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507

System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584

NASH, D. O.

Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871

NASON, G. H.

Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720

NASUTI, A. J.

Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926

Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606

NATHAN, R.

System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584

NAUMANN, E. C.

Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003

Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276

Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681

Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

NAUMANN, R. J.

Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310

Carbon monoxide monitor
[NASA-CASE-MFS-22060-1] c 35 N75-29380

Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718

NAUMANN, ROBERT J.

Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111

Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544

Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545

Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815

NEAL, P. F.

Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067

NEALY, J. E.

Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484

NELSON, B.

Defective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518

NELSON, B. W.

Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673

NELSON, C. A.

Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547

NELSON, C. H.

Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975

Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

NELSON, C. W.

X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126

NELSON, D. E.

Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811

NELSON, E. P.

Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385

NELSON, H. H.

Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333

NELSON, M. D.

Optical fiber coupling method and apparatus
[NASA-CASE-NPO-15464-1] c 74 N85-29749

NELSON, W. J.

Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569

NERAD, B. A.

Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589

NERHEIM, N. M.

Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441

NERHEIM, NOBLE M.

Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259

NERREN, BILLY H.

Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545

NESMITH, M. F.

Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789

NESMITH, MALCOLM F.

Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333

NEUGEBAUER, M.

Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

NEWBY, D. T.

Hole cutter
[NASA-CASE-MFS-22649-1] c 37 N75-25186

NEWCOMB, A. L., JR.

Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461

Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559

Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084

Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315

Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089

NEWCOMB, J. F.

Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740

NEWCOMB, W. L.

Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679

NEWCOMBE, C. A.

Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322

NEWMAN, D. F.

Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267

NEWMAN, J. B.

Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901

NEWMAN, J. M.

New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251

Polymers of perfluorobutadiene and method of manufacture
[NASA-CASE-NPO-10863-2] c 06 N72-25152

NGO, KIM CHI T.

Vacuum-isolation vessel and method for measurement of thermal noise in microphones
[NASA-CASE-LAR-14567-1-CU] c 33 N92-12174

NGUYEN, TIEN M.

Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318

NIBLEY, D. A.

Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

NICHOLS, F. W.

Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389

NICHOLS, G. B.

Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
Apparatus for phase stability determination Patent
[NASA-CASE-XGS-01118] c 10 N71-23662

NICHOLS, G. H.

Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737

NICHOLS, J. J.

Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705

NICHOLS, M. R.

Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118

NICKLAS, J. C.

Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040

NICOL, W. S.

Vapor deposition apparatus
[NASA-CASE-HQN-10462] c 25 N75-29192

NIEDRA, J. M.

Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197

NIEDZWIECKI, R. W.

Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
Controlled separation combustor
[NASA-CASE-LEW-11593-1] c 20 N76-14190

NIEH, KAI-WEI

Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561

NIELSON, T. L.

Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679

NIER, A. O.

Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

NIESSEN, F. R.

Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097

NIR, Z.

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

NISEN, D. B.

Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650

NISHIOKA, K.

Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

NISSIM, E.

Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004

NISWANDER, J. K.

Memory-based frame synchronizer
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

MITTA, H.

High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817

NIXON, D. L.

Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548

Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420

NOBLE, R. M.

Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929

NOLA, F. J.

Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874

Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376

Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Electrical power generating system
[NASA-CASE-MFS-24368-3] c 33 N81-22280

Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360

Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190

Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455

Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886

Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Coupling an induction motor type generator to ac power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660

Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769

NOLA, FRANK J.
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410

NOONAN, K. W.
Family of airfoil shapes for rotating blades
[NASA-CASE-LAR-12843-1] c 02 N84-11136

NOONAN, KEVIN W.
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

NORD, D. B.
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443

NORDEN, B. N.
Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476

NOREEN, S. J.
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937

NORGREN, C. T.
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915

NORIKANE, LYNNE
Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

NORK, C. L.

Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985

NORMAN, R. M.

Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391

Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454

Zero torque gear head wrench
[NASA-CASE-NPO-13059-1] c 37 N76-20480

NORRIS, D. D.

Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

NORTON, R. H.

Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420

Interferometer
[NASA-CASE-NPO-14448-1] c 74 N81-29963

NORTON, WILLIAM E.

Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795

NORWOOD, J., JR.

Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184

NOSEN, E. J.

Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331

NOUHI, AKBAR

Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120

NOVOTNY, J. E.

Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411

NUSBAUM, W. J.

Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201

O

OAKLEY, E. C.

RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388

OBARA, CLIFFORD J.

Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793

OBERSCHMIDT, M.

Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257

OBLER, H. D.

Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902

Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583

Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078

OBRIEN, J. P.

Process for the preparation of polycarbonylphosphazenes
[NASA-CASE-ARC-11176-2] c 27 N81-27271

OBRIEN, D. E., III

Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MSC-14219-1] c 32 N74-27612

OBRIEN, J. P.

Carboranylclotriphosphazenes and their polymers
[NASA-CASE-ARC-11176-1] c 27 N82-18389

OCONNER, B. J.

Failure detection and control means for improved drift performance of a gimbal platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175

OCONNOR, E. W.

Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

OCONNOR, J. W.

Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457

ODELL, H. G.

Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191

ODONNELL, P. M.

Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408

ODONNELL, T. J.

Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381

OERTEL, G. K.

Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060

- Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
- OFARRELL, H. W.**
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
- OFFIK, W. G.**
Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199
- OGDEN, H. F.**
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
- OGDEN, H. R.**
Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
- OGLE, J. S.**
Whole body measurement systems
[NASA-CASE-MSC-13972-1] c 52 N74-10975
- OHLSON, J. E.**
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214
- OKANE, J. H.**
Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
- OKANE, JAMES H.**
Hatch cover
[NASA-CASE-MSC-21356-1] c 18 N90-19278
- OKEAN, H. C.**
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195
- OKEEFE, W. J.**
Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
- OKELLY, K. P.**
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
- OKUNOLA, O.**
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
- OLCOTT, J. W.**
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
- OLDRIEVE, R. E.**
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182
- OLIVER, CHARLES E.**
Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959
- OLIVER, G. D.**
Scanning nozzle plating system
[NASA-CASE-NPO-11758-1] c 31 N74-23065
- OLIVER, R. E.**
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
- OLIVER, R. L.**
Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019
- OLLENDORF, S.**
Structural heat pipe
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
- OLLING, E. H.**
Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
- OLSASKY, M. J.**
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
- OLSEN, W. A., JR.**
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
- OLSON, W. T.**
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
- OLTMANS, D. A.**
Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554
- ONEAL, JAMES E.**
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
- ONEIL, R. L.**
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
- ONEILL, R. W.**
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479
- ONSTOTT, JOSEPH W.**
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
- ORAN, W. A.**
Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
- OREILLY, W. J.**
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
- OREM, V. C.**
Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
- ORIENT, OTTO J.**
Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660
Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661
Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813
- ORILLION, A. G.**
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585
- ORLIK, F. W.**
Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068
- ORLOFF, K. L.**
Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
- ORMISTON, R. A.**
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
- ORNER, J. W.**
Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
- OROURKE, T. E., JR.**
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
- ORTH, N. W.**
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-1] c 24 N81-17170
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
- OSBORNE, ERIC P.**
Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N91-14001
- OSHER, J. V.**
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
- OSMUNDSON, J.**
Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
- OSTROFF, A. J.**
Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444
- OSTROFF, J.**
Rotary actuator
[NASA-CASE-NPO-10244] c 15 N72-26371
- OSULLIVAN, W. J., JR.**
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792
Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
- OTHMAN, T. E.**
Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
- OTOSHI, T. Y.**
Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
- OTOUSA, JOSEPH E.**
Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N91-15368
- OTTENBRITE, RAPHAEL M.**
Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560
Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418
- OTTO, G. H.**
Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
- OUTLAW, R. A.**
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
- OVERHAUSER, ALBERT W.**
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
- OWEN, JAMES W.**
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556
- OWEN, R. B.**
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355
- OWEN, ROBERT B.**
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
- OWENS, L. J.**
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542
Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
- OWENS, LESTER J.**
Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755
- OZAWA, T.**
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766

P

- PACALA, T. J.**
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
- PACALA, THOMAS J.**
Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961
Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862
- PACE, G. D., JR.**
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
- PACIOREK, K. J. L.**
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
Compound oxidized styrylphosphine
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438

- Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
- PACKARD, D. T.**
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
- PACKARD, R. D.**
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
- PACKER, P. N.**
Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
- PADILLA, D.**
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
- PAGE, N. A.**
Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
- PAGEL, L. L.**
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
- PAIK, S. F.**
Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
- PAIK, W. W.**
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
- PAINTER, J. H.**
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
- PALANDATI, C. F., JR.**
Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
- PALMER, E. I.**
Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
- PALSINGH, S.**
Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789
- PAN, F. M.**
A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
- PAOLINI, J. J.**
Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
- PAPELL, S. S.**
Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
- PAQUETTE, E. G.**
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568
- PARDOE, C. T.**
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
- PADESCHE, F.**
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
- PARISH, R. C.**
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
- PARK, J. J.**
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
- PARKER, D. L.**
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
- PARKER, G. L.**
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c 14 N72-22441
- Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
- PARKER, J. A.**
Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
Flexible fire retardant polyisocyanate modified neoprene foam
[NASA-CASE-ARC-10180-1] c 27 N74-12814
Chromato-fluorographic drug detector
[NASA-CASE-ARC-10633-1] c 25 N74-26947
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348
Metal (2,4,4',4'') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
- PARKER, JOHN A.**
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
- PARKER, L. C.**
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990
- PARKER, O. J.**
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
- PARKER, R. J.**
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c 15 N73-30458
Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
- PARMA, GEORGE F.**
Gripping device
[NASA-CASE-MSC-21365-1] c 37 N90-20408
- PARMLEY, R. T.**
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
- PARR, R. A.**
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
- PARRA, G. T.**
Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
- PARSONS, W. E.**
Electronic checkout system for space vehicles Patent
[NASA-CASE-KXS-08012-2] c 31 N71-15566
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
- PARTHASARATHY, S. P.**
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
System for plotting subsoil structure and method thereof
[NASA-CASE-NPO-14191-1] c 31 N80-32584
Carbon granule probe microphone for leak detection
[NASA-CASE-NPO-16027-1] c 35 N85-21597
- PARTSCH, V. M.**
Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
- PASCIUTTI, E. R.**
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
- PASIERB, E. F.**
GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
- PASSMAN, H. M.**
Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
- PATE, W. E.**
Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015
- PATEL, B. C.**
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
- PATER, R. H.**
High temperature resistant polyimide from tetra ester, diamine, diester and N-arynadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
- PATER, RUTH H.**
Semiinterpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334
A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881
A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955
Low toxicity high temperature PMR polyimides
[NASA-CASE-LAR-14639-1] c 27 N92-11199

- Semi-interpenetrating polymer network for tougher and more microcracking resistant high temperature polymers [NASA-CASE-LAR-13925-1] c 27 N92-21711
- Tough, high performance, addition-type thermoplastic polymers [NASA-CASE-LAR-14346-1] c 27 N92-22044
- PATON, W. J.**
Flammability test chamber Patent [NASA-CASE-KSC-10126] c 11 N71-24985
- PATTEE, H. E.**
Attaching of strain gages to substrates [NASA-CASE-FRC-10093-1] c 35 N80-20560
- PATTEN, C. W.**
Method and apparatus for attaching physiological monitoring electrodes Patent [NASA-CASE-XFR-07658-1] c 05 N71-26293
- PATTERSON, J. C., JR.**
Wingtip vortex dissipator for aircraft [NASA-CASE-LAR-11645-1] c 02 N77-10001
Wingtip vortex propeller [NASA-CASE-LAR-13019-1] c 07 N85-35194
- PATTERSON, JAMES C., JR.**
Compression pylon [NASA-CASE-LAR-13777-1] c 05 N90-20078
Wingtip vortex turbine [NASA-CASE-LAR-14116-1] c 05 N91-14345
- PATTERSON, W. J.**
Synthesis of siloxane-containing epoxy polymers Patent [NASA-CASE-MFS-13994-1] c 06 N71-11240
Siloxane containing epoxide compounds [NASA-CASE-MFS-13994-2] c 06 N72-25148
Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups [NASA-CASE-MFS-20979] c 06 N72-25151
Polymerizable disilanol having in-chain perfluoroalkyl groups [NASA-CASE-MFS-20979-2] c 06 N73-32030
- PAULI, F. A.**
Attitude controls for VTOL aircraft Patent [NASA-CASE-XAC-08972] c 02 N71-20570
- PAULKOVICH, J.**
Apparatus for measuring current flow Patent [NASA-CASE-XGS-02439] c 14 N71-19431
Coulometer and third electrode battery charging circuit Patent [NASA-CASE-GSC-10487-1] c 03 N71-24719
Buck/boost regulator [NASA-CASE-GSC-12360-1] c 33 N81-19392
Non-contacting power transfer device [NASA-CASE-GSC-12595-1] c 33 N82-24422
- PAULL, S.**
Variable frequency magnetic multivibrator Patent [NASA-CASE-XGS-00458] c 09 N70-38604
Variable frequency magnetic multivibrator Patent [NASA-CASE-XGS-00131] c 09 N70-38995
- PAVLICS, F.**
Resilient wheel Patent [NASA-CASE-MFS-13929] c 15 N71-27091
- PAWLIK, E. V.**
Plasma device feed system Patent [NASA-CASE-XLE-02902] c 25 N71-21694
Ion thruster with a combination keeper electrode and electron baffle [NASA-CASE-NPO-11880] c 28 N73-24783
Sandblasting nozzle [NASA-CASE-NPO-13823-1] c 37 N81-25371
- PAWLOWSKI, J. F.**
Method and apparatus for receiving and tracking phase modulated signals [NASA-CASE-MSC-16170-2] c 32 N84-27952
- PEARSON, A. O.**
Measurement of gas production of microorganisms [NASA-CASE-LAR-11326-1] c 35 N75-33368
- PEASE, R. E.**
Longwall shearer tracking system [NASA-CASE-MFS-25717-1] c 35 N84-33768
- PECHMAN, A.**
Two-component ceramic coating for silica insulation [NASA-CASE-MSC-14270-1] c 27 N76-22377
Three-component ceramic coating for silica insulation [NASA-CASE-MSC-14270-2] c 27 N76-23426
- PECK, S. R.**
Voltage feed through apparatus having reduced partial discharge [NASA-CASE-GSC-12347-1] c 33 N80-18286
- PECKHAM, V. A., JR.**
Sample collecting impact bit Patent [NASA-CASE-XNP-01412] c 15 N70-42034
- PEDERSON, C. W.**
Low distortion automatic phase control circuit [NASA-CASE-MFS-21671-1] c 33 N74-22885
- PEELGREN, M. L.**
Shell side liquid metal boiler [NASA-CASE-NPO-10831] c 33 N72-20915
- PEER, C. R.**
Connector strips-positive, negative and T tabs [NASA-CASE-XGS-01395] c 03 N69-21539
- PEGDEN, C. D.**
Multiple in-line docking capability for rotating space stations [NASA-CASE-MFS-20855-1] c 15 N77-10112
- PELCHAT, G. M.**
Adaptive polarization separation [NASA-CASE-LAR-12196-1] c 33 N81-26358
- PELISCHEK, T. E.**
Foldable self-erecting joint [NASA-CASE-MSC-20635-1] c 18 N87-14373
- PELLERIN, C. J., JR.**
Two axis fluxgate magnetometer Patent [NASA-CASE-GSC-10441-1] c 14 N71-27325
- PENKO, PAUL F.**
Heat exchanger for electrothermal devices [NASA-CASE-LEW-14037-1] c 20 N87-16875
- PENN, B. G.**
Process for producing tris (n-methylamino) methylsilane [NASA-CASE-MFS-25721-1] c 25 N85-21280
- PENN, BENJAMIN G.**
Method for machining holes in composite materials [NASA-CASE-MFS-28044-1] c 31 N87-25491
- PENNINGTON, JACK E.**
Space spider crane [NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
- PENQUE, N. J.**
Varactor high level mixer [NASA-CASE-XGS-02171] c 09 N69-24324
- PEOPLES, J. A.**
Multiway vortex valve system Patent [NASA-CASE-XMF-04709] c 15 N71-15609
- PEREZ, RAUL M.**
Method for non-destructive estimation of waveguide directional coupler dimensions [NASA-CASE-NPO-18454-1-CU] c 33 N92-17865
- PERKINS, G. S.**
Detenting servomotor Patent [NASA-CASE-XNP-06936] c 15 N71-24695
Ball screw linear actuator [NASA-CASE-NPO-11222] c 15 N72-25456
Sun tracking solar energy collector [NASA-CASE-NPO-13921-1] c 44 N79-14526
Sandblasting nozzle [NASA-CASE-NPO-13823-1] c 37 N81-25371
- PERKINS, GERALD S.**
Low noise lead screw positioner [NASA-CASE-NPO-15617-1] c 35 N87-21304
- PERKINS, H.**
System for imposing directional stability on a rocket-propelled vehicle [NASA-CASE-MFS-21311-1] c 20 N76-21275
- PERKINS, P. J., JR.**
Cryogenic insulation system Patent [NASA-CASE-XLE-04222] c 23 N71-22881
Insulation system Patent [NASA-CASE-XLE-02647] c 18 N71-23658
- PERLMAN, M.**
Linear three-tap feedback shift register Patent [NASA-CASE-NPO-10351] c 08 N71-12503
Binary sequence detector Patent [NASA-CASE-XNP-05415] c 08 N71-12505
Digital function generator [NASA-CASE-NPO-11104] c 08 N72-22165
Feedback shift register with states decomposed into cycles of equal length [NASA-CASE-NPO-11082] c 08 N72-22167
Pseudonoise sequence generators with three tap linear feedback shift registers [NASA-CASE-NPO-11406] c 08 N73-12175
A m-ary linear feedback shift register with binary logic [NASA-CASE-NPO-11868] c 10 N73-20254
System for generating timing and control signals [NASA-CASE-NPO-13125-1] c 33 N75-19519
Nonlinear nonsingular feedback shift registers [NASA-CASE-NPO-13451-1] c 33 N76-14373
- PERLMAN, MARVIN**
Asymmetric soft-error resistant memory [NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
- PERLMUTTER, M.**
Device for directionally controlling electromagnetic radiation Patent [NASA-CASE-XLE-01716] c 09 N70-40234
- PERRY, C. L.**
Metabolic analyzer [NASA-CASE-MFS-21415-1] c 52 N74-20728
- PERRY, G. D.**
Zero gravity apparatus Patent [NASA-CASE-XMF-06515] c 14 N71-23227
- PERRY, J. C.**
System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station [NASA-CASE-GSC-12411-1] c 33 N81-14221
- PERRY, JOSEPH W.**
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices [NASA-CASE-NPO-17612-1-CU] c 74 N92-16808
- PERRY, RONNIE B.**
Improving the performance of blasting caps [NASA-CASE-LAR-13832-1] c 28 N91-28444
- PERRY, W. E.**
Optical conversion method [NASA-CASE-MSC-12618-1] c 74 N78-17865
- PERSON, J. K.**
Bonding machine for forming a solar array strip [NASA-CASE-NPO-13652-2] c 44 N79-24431
- PERSON, LEE H.**
Airplane takeoff and landing performance monitoring system [NASA-CASE-LAR-13734-1-CU] c 09 N90-20096
- PERSON, LEE H., JR.**
Method and system for monitoring and displaying engine performance parameters [NASA-CASE-LAR-14049-1] c 07 N89-23466
Airplane takeoff and landing performance monitoring system [NASA-CASE-LAR-13854-1-CU] c 04 N91-31120
- PESEK, C. T.**
Clamping assembly for inertial components Patent [NASA-CASE-XMS-02184] c 15 N71-20813
Circuit board package with wedge shaped covers [NASA-CASE-MFS-21919-1] c 10 N73-25243
- PESMAN, G. J.**
Shock absorbing support and restraint means Patent [NASA-CASE-XMS-01240] c 05 N70-35152
- PETERS, D. A.**
Hingeless helicopter rotor with improved stability [NASA-CASE-ARC-10807-1] c 05 N77-17029
- PETERS, H. E.**
Atomic standard with variable storage volume [NASA-CASE-GSC-11895-1] c 35 N76-15436
- PETERS, L., JR.**
Horn antenna having V-shaped corrugated slots [NASA-CASE-LAR-11112-1] c 32 N76-15330
- PETERS, P. N.**
Germanium coated microbridge and method [NASA-CASE-MFS-23274-1] c 33 N78-13320
- PETERS, PALMER N.**
Planar thin film SQUID with integral flux concentrator [NASA-CASE-MFS-28282-1] c 76 N88-29602
- PETERS, R. L.**
CRT blanking and brightness control circuit [NASA-CASE-KSC-10647-1] c 10 N72-31273
- PETERS, R. W.**
Two component bearing Patent [NASA-CASE-XLA-00013] c 15 N71-29136
- PETERSEN, G. R.**
Thermochemical generation of hydrogen [NASA-CASE-NPO-15015-1] c 25 N82-28368
Enhancement of in vitro guayule propagation [NASA-CASE-NPO-15213-1] c 51 N83-17045
- PETERSEN, H. L.**
Four phase logic systems [NASA-CASE-MSC-14240-1] c 33 N75-14957
- PETERSEN, H. W.**
Adjustable mount for a trihedral mirror Patent [NASA-CASE-XNP-08907] c 23 N71-29123
- PETERSON, E. W.**
Canopus detector including automotive gain control of photomultiplier tube Patent [NASA-CASE-XNP-03914] c 21 N71-10771
- PETERSON, N. C.**
Ultraviolet atomic emission detector [NASA-CASE-HQN-10756-1] c 14 N72-25428
- PETERSON, N. E., JR.**
Shrink-fit gas valve Patent [NASA-CASE-XGS-00587] c 15 N70-35087
- PETERSON, P. D.**
Portable environmental control system Patent [NASA-CASE-XMS-09632-1] c 05 N71-11203
- PETERSON, S. A.**
Reusable captive blind fastener [NASA-CASE-MSC-18742-1] c 37 N82-26673
- PETERSON, S. T.**
Meteoroid detector [NASA-CASE-LAR-10483-1] c 14 N73-32327
- PETERSON, V. S.**
Flow angle sensor and read out system Patent [NASA-CASE-XLE-04503] c 14 N71-24864
Solid state remote circuit selector switch [NASA-CASE-LEW-10387] c 09 N72-22201
Low level signal limiter [NASA-CASE-XLE-04791] c 32 N74-22096

- Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
- PETERSON, W. A.**
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
- PETERSON, W. D.**
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
- PETERSON, WAYNE L.**
Assured crew return vehicle
[NASA-CASE-MS-C-21536-1] c 18 N91-13483
Assured crew return vehicle
[NASA-CASE-MS-C-21536-1] c 18 N92-21999
- PETERSSEN, H. E.**
Medical subject monitoring systems
[NASA-CASE-MS-C-14180-1] c 52 N76-14757
- PETRASEK, D. W.**
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539
- PETRICK, E. N.**
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
- PETRICK, S. W.**
Radiative cooler
[NASA-CASE-NPO-15465-1] c 34 N84-22903
- PETRICK, S. WALTER**
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385
Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203
- PETRO, ANDREW J.**
Orbital debris sweeper and method
[NASA-CASE-MS-C-21534-1] c 18 N91-21222
- PETYNYIA, W. W.**
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Space vehicle system
[NASA-CASE-MS-C-12561-1] c 18 N76-17185
- PEYRAN, RICHARD J.**
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631
- PEYTON, J.**
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
- PEZDIRTZ, G. F.**
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903
- PFAFF, H.**
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
- PFIFFNER, H. J.**
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
- PFIFFNER, HAROLD J.**
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MS-C-20187-1] c 33 N87-25531
- PFLEGER, R. O.**
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
- PFLUGER, H. L.**
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
- Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- PHELPS, A. E.**
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- PHILIPP, W. H.**
Selective nickel deposition
[NASA-CASE-LEW-10965-1] c 15 N72-25452
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
In-situ cross linking of polyvinyl alcohol
[NASA-CASE-LEW-13135-2] c 27 N81-24257
Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
- PHILIPP, WARREN H.**
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122
- PHILIPS, A. R.**
Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
- PHILIPS, ALBERT R.**
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
- PHILLIPP, W. H.**
Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
- PHILLIPS, B. L. S.**
File card marker Patent
[NASA-CASE-XLA-02705] c 08 N71-15908
- PHILLIPS, E. C., JR.**
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
- PHILLIPS, W. H.**
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154
- PHILLIPS, W. M.**
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Cermet composition and method of fabrication
[NASA-CASE-NPO-13120-1] c 27 N76-15311
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
Nuclear thermionic converter
[NASA-CASE-NPO-13121-1] c 73 N77-18891
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-1] c 27 N78-19302
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
- PHLIEGER, G. A., JR.**
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
- PIASECKI, L. R.**
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
- PICCILO, G. L.**
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
- Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
Rapid, quantitative determination of bacteria in water
[NASA-CASE-GSC-12158-1] c 51 N83-27569
- PICHAICHANARONG, P.**
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
- PICKETT, HERBERT M.**
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567
- PIERCE, R. M.**
Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534
- PIKE, JAMES F.**
Substantially oxygen-free contact tube
[NASA-CASE-LAR-14169-1] c 37 N92-17677
- PINCKNEY, K. R.**
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
- PINCKNEY, S. Z.**
Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429
- PINCUS, B. R.**
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
- PING, T.**
Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696
- PING, TCHENG**
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
Skin friction balance
[NASA-CASE-LAR-13710-1] c 35 N90-17117
- PINKEL, I. I.**
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
- PINSON, G. T.**
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457
- PIPPEN, D. L.**
High voltage pulse generator Patent
[NASA-CASE-MS-C-12178-1] c 09 N71-13518
- PITELLI, E. E.**
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
- PITTS, D. E.**
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MS-C-12611-1] c 12 N76-15189
- PITTS, F. L.**
Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
- PITTS, W. C.**
Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439
- PITTS, WILLIAM C.**
Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236
- PIVIROTTI, T. J.**
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
High power metallic halide laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
- PIZZECK, D. E.**
Connector
[NASA-CASE-LAR-11709-1] c 37 N76-27567
- PLAKAS, C. J.**
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
- PLAMONDON, J. A., JR.**
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
- PLAMOWSKI, S. C.**
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692

- PLATT, P. K.**
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
- PLAZEK, D. J.**
Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781
- PLEASANTS, J. E.**
Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
- PLENTOVICH, ELIZABETH B.**
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
- PLITT, K. F.**
Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
- POUGH, ALAN**
EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879
- PODGORSKI, T. J.**
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
- POESCHEL, R. L.**
Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
- POGORZELSKI, F. S.**
Apparatus for welding sheet material
[NASA-CASE-XMS-01330] c 37 N75-27376
- POHL, H. O.**
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
- POHL, J. G.**
Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
- POHM, A. V.**
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
- POI, SHARON**
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340
- POLHAMUS, E. C.**
Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011
Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
- POLHEMUS, J. T.**
Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720
Pulse transducer with artifact signal attenuator
[NASA-CASE-FRC-11012-1] c 52 N80-23969
- POLITES, MICHAEL E.**
Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304
- POLLACK, I.**
Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02203] c 17 N71-23828
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
- POLLACK, J. L.**
High powered arc electrodes
[NASA-CASE-LEW-11162-1] c 33 N74-12913
- POLLARD, R. A.**
Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
- POLLOCK, G. E.**
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
- POLSTORFF, W. K.**
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
- POLSTORFF, WALTER**
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508
- POMPLUM, A. R.**
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568
- POOL, S. L.**
Medical subject monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
- POOLE, B. D., JR.**
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
- POORMAN, R. M.**
Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214
- POORMAN, RICHARD M.**
High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N91-25335
- POPE, A. M.**
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
- POPE, J. M.**
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
- POPE, W. L.**
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
- POPICK, H.**
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
- POPINSKI, Z.**
Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
- POPMA, D. C.**
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
- PORADEK, J. C.**
Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545
Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584
- PORTER, A. C.**
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
- PORTER, CHRISTOPHER C.**
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880
- PORTER, E. E.**
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
- PORTER, R. N.**
Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
Zero gravity starting means for liquid propellant motors
[NASA-CASE-XNP-01390] c 28 N70-41275
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
- PORTER, W. A.**
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
- PORTNOY, W. A.**
Insulated electrocardiographic electrodes
[NASA-CASE-MSC-14339-1] c 05 N75-24716
- PORTWOOD, J. N.**
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
- POSCHENRIEDER, W. P.**
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
- POSEY, D. L.**
Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358
- POSHKUS, A. C.**
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
Synthesis of 2,4,8,10-tetroxaspiro[5.5]undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187
- POSNER, E. C.**
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
- Method and apparatus for a single channel digital communications system
[NASA-CASE-NPO-11302-2] c 32 N74-10132
- POST, R. E.**
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
- POSTMA, R. W.**
Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382
- POTEATE, W. B.**
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759
- POTTER, A. E., JR.**
Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
- POTTER, L. R.**
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
- POTTER, N. H.**
Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
- POTTER, P. D.**
Cassegrainian antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
Dichroic plate
[NASA-CASE-NPO-13506-1] c 35 N76-15435
- POUCHOT, W. D.**
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHO-03673] c 33 N71-29046
- POULSEN, P. D.**
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
- POVINELLI, L. A.**
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
- POWELL, C. A., JR.**
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
- POWELL, J. A.**
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
- POWELL, J. ANTHONY**
Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-1] c 76 N91-26966
Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers
[NASA-CASE-LEW-15223-1] c 76 N91-26967
- POWELL, J. D.**
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
- POWELL, W. B.**
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
- POWELL, W. E., JR.**
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
- POWER, J. L.**
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
- POWERS, E. I.**
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
- POZSONY, E. R.**
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
- PRABHAKARAN, RAMAMURTHY**
Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374
- PRASTHOFFER, W. P.**
Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
- PRATT, J. R.**
Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
- PRATT, J. RICHARD**
Novel polyimide compositions based on 4,4': isophthaloyldipthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N91-15403
Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N91-28425

Diphenylmethane-containing polyimides prepared therefrom [NASA-CASE-LAR-14487-1] c 27 N92-11200

PRELIASCO, R. J.
Joint for deployable structures [NASA-CASE-NPO-16038-1] c 37 N86-19605

PRESCOTT, R.
High resistance and raised modulus carbon fibers [NASA-TM-76884] c 24 N85-25436

PRESCOTT, W. A.
Liquid-gas separation system Patent [NASA-CASE-XMS-01624] c 15 N70-40062

PRESLEY, L. L.
Measurement of plasma temperature and density using radiation absorption [NASA-CASE-ARC-10598-1] c 75 N74-30156

PRESTON, G. M.
Electronic checkout system for space vehicles Patent [NASA-CASE-XKS-08012-2] c 31 N71-15566

PRESTON, G. W.
Satellite communication system Patent [NASA-CASE-XNP-02389] c 07 N71-28900

PRICE, A. G.
Attitude sensor [NASA-CASE-LAR-10586-1] c 19 N74-15089

PRICE, H. W.
Gravity gradient attitude control system Patent [NASA-CASE-GSC-10555-1] c 21 N71-27324

PRICE, P.
Apparatus for establishing flow of a fluid mass having a known velocity [NASA-CASE-MFS-21424-1] c 34 N74-27730

PRICE, S. B.
Surface roughness detector Patent [NASA-CASE-XLA-00203] c 14 N70-34161

PRIDE, J. D., JR.
Remote controlled tubular disconnect Patent [NASA-CASE-XLA-01396] c 03 N71-12259

PRIEBE, G. W.
Relief container [NASA-CASE-XMS-06761] c 05 N69-23192

PRIMAS, LORI E.
Power supply conditioning circuit [NASA-CASE-NPO-17233-1-CU] c 33 N88-29095

Fiber optic frequency transfer link [NASA-CASE-NPO-17703-1-CU] c 74 N91-27957

PRIOLETTI, J. A.
Inductive liquid level detection system Patent [NASA-CASE-XLE-01609] c 14 N71-10500

PRITCHARD, E. B.
Orbital and entry tracking accessory for globes [NASA-CASE-LAR-10626-1] c 19 N74-21015

PRITCHARD, H. O.
Reduction of nitric oxide emissions from a combustor [NASA-CASE-ARC-10814-2] c 07 N80-26298

PROCH, G. E.
Digital transmitter for data bus communications system [NASA-CASE-MS-C-14558-1] c 32 N75-21486

Low distortion receiver for bi-level baseband PCM waveforms [NASA-CASE-MS-C-14557-1] c 32 N76-16249

PROEMSEY, J. H.
Method for making a heat insulating and ablative structure [NASA-CASE-XMS-01108] c 15 N69-24322

PROFFIT, R. L.
Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum [NASA-CASE-MFS-13130] c 10 N72-17173

PROGAR, D. J.
Process for applying black coating to metals Patent [NASA-CASE-XLA-06199] c 15 N71-24875

Polyimide adhesives [NASA-CASE-LAR-11397-1] c 27 N75-29263

Polyimide adhesives [NASA-CASE-LAR-12181-1] c 27 N78-17205

Hot melt recharge system [NASA-CASE-LAR-12881-1] c 27 N84-14323

Hot melt adhesive attachment pad [NASA-CASE-LAR-12894-1] c 27 N85-20125

PROGAR, DONALD J.
Copolyimide with a combination of flexibilizing groups [NASA-CASE-LAR-13821-1] c 27 N90-16950

Novel polyimide molding powder, coating, adhesive, and matrix resin [NASA-CASE-LAR-14163-1] c 27 N91-13559

Processable polyimide adhesive and matrix composite resin [NASA-CASE-LAR-14101-1] c 27 N91-15403

PROK, G. M.
Apparatus for making a metal slurry product Patent [NASA-CASE-XLE-00010] c 15 N70-33382

PROKOPIUS, P. R.
Flow measuring apparatus [NASA-CASE-LEW-12078-1] c 35 N75-30503

PRUETT, B. J.
Apparatus for testing a pressure responsive instrument Patent [NASA-CASE-XMF-04134] c 14 N71-23755

PRUETT, E. C.
Satellite retrieval system [NASA-CASE-MFS-25403-1] c 18 N83-29303

PRYOR, D. E.
Inflatable transpiration cooled nozzle [NASA-CASE-MFS-20619] c 28 N72-11708

PRYOR, P. P., JR.
Computerized system for translating a torch head [NASA-CASE-MFS-23620-1] c 37 N79-10421

PRZYBYSZEWski, J. S.
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias [NASA-CASE-LEW-10920-1] c 17 N73-24569

Joining lead wires to thin platinum alloy films [NASA-CASE-LEW-13934-1] c 35 N83-35338

PSALTIS, D.
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam [NASA-CASE-NPO-15865-1] c 74 N85-34629

PSARRAS, T.
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups [NASA-CASE-ARC-11241-1] c 25 N81-14016

PUCCINELLI, A. A.
Three-axis controller Patent [NASA-CASE-XAC-01404] c 05 N70-41581

Transfer valve Patent [NASA-CASE-XAC-01158] c 15 N71-23051

PUCILLO, G. L.
Integrated thermoelectric generator/space antenna combination [NASA-CASE-XER-09521] c 09 N72-12136

PULLING, R. C.
Space suit [NASA-CASE-MS-C-12609-1] c 05 N73-32012

PURCELL, T. H., JR.
Electric storage battery [NASA-CASE-NPO-11021] c 03 N72-20032

PURGOLD, G. C.
Automated syringe sampler [NASA-CASE-LAR-12308-1] c 35 N81-29407

PUSEY, MARC L.
X ray sensitive area detection device [NASA-CASE-MFS-28232-1] c 74 N91-14835

Drop deployment system for crystal growth apparatus [NASA-CASE-MFS-28422-1] c 29 N91-17250

PUSTER, R. L.
A system for controlling the oxygen content of a gas produced by combustion [NASA-CASE-LAR-13257-1] c 25 N84-32447

PUSTER, RICHARD L.
Method and device for determining heats of combustion of gaseous hydrocarbons [NASA-CASE-LAR-13528-1] c 25 N88-29002

Device for quickly sensing the amount of O₂ in a combustion product gas [NASA-CASE-LAR-13816-1] c 35 N90-22025

Improved method and apparatus for Mach number change in wind tunnel [NASA-CASE-LAR-13548-1] c 09 N91-28175

PUTCHA, LAKSHMI
Intranasal scopolamine preparation and method [NASA-CASE-MS-C-21858-1] c 52 N92-11628

PUTNAM, D. F.
Electrolytic cell structure [NASA-CASE-LAR-11042-1] c 33 N75-27252

PUTTERMAN, SETH
Acoustic positioning and orientation prediction [NASA-CASE-NPO-17511-1-CU] c 71 N91-14807

QADER, S. A.
Solar heated fluidized bed gasification system [NASA-CASE-NPO-15071-1] c 44 N82-16475

Solar heated oil shale pyrolysis process [NASA-CASE-NPO-16392-1] c 25 N86-25428

QUATINETZ, M.
Method for producing fiber reinforced metallic composites Patent [NASA-CASE-XLE-03925] c 18 N71-22894

Gas purged dry box glove Patent [NASA-CASE-XLE-02531] c 05 N71-23080

Process for producing dispersion strengthened nickel with aluminum Patent [NASA-CASE-XLE-06969] c 17 N71-24142

Q

Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent [NASA-CASE-XLE-03940] c 18 N71-26153

Refractory metal base alloy composites [NASA-CASE-XLE-03940-2] c 17 N72-28536

QUATTRONE, P. D.
Exposure system for animals Patent [NASA-CASE-XAC-05333] c 11 N71-22875

QUINN, R. B.
Maser for frequencies in the 7-20 GHz range [NASA-CASE-NPO-11437] c 16 N72-28521

Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures [NASA-CASE-NPO-14254-1] c 36 N80-18372

Resonant isolator for maser amplifier [NASA-CASE-NPO-15201-1] c 36 N83-35350

Reynolds, R. K.
Hydrogen-fueled engine [NASA-CASE-NPO-13763-1] c 44 N78-33526

RADNOFSKY, M. I.
Life raft Patent [NASA-CASE-XMS-00863] c 05 N70-34857

Shock absorbing support and restraint means Patent [NASA-CASE-XMS-01240] c 05 N70-35152

Life preserver Patent [NASA-CASE-XMS-00864] c 05 N70-36493

Inflatable radar reflector unit Patent [NASA-CASE-XMS-00893] c 07 N70-40063

Life raft stabilizer [NASA-CASE-MS-C-12393-1] c 02 N73-26006

RAGGIO, C. W., JR.
Steerable solid propellant rocket motor Patent [NASA-CASE-XNP-00234] c 28 N70-38645

RAINEY, R. W.
High speed flight vehicle control Patent [NASA-CASE-XLA-08967] c 02 N71-27088

RAINWATER, L. L.
Collapsible antenna boom and transmission line Patent [NASA-CASE-MFS-20068] c 07 N71-27191

RAMEY, R. L.
Depositing semiconductor films utilizing a thermal gradient [NASA-CASE-XKS-04614] c 15 N69-21460

Active microwave irises and windows [NASA-CASE-LAR-10513-1] c 07 N72-25170

Thin film microwave iris [NASA-CASE-LAR-10511-1] c 09 N72-29172

RAMME, F. B.
Flexible conductive disc electrode Patent [NASA-CASE-FRC-10029] c 09 N71-24618

Method of removing insulated material from insulated wires [NASA-CASE-FRC-10038] c 15 N72-20444

Method of making dry electrodes [NASA-CASE-FRC-10029-2] c 05 N72-25121

RAMOHALI, K. N. R.
Silicone containing solid propellant [NASA-CASE-NPO-14477-1] c 28 N80-28536

RAMSEY, JOHN K.
Post clamp [NASA-CASE-LEW-14862-1] c 37 N91-14617

RAND, J. L.
Thin film strain transducer [NASA-CASE-WLP-10055-1] c 35 N84-28015

Thin film strain transducer [NASA-CASE-WLP-10055-2] c 35 N85-21598

RANDALL, J. C.
Attitude control for spacecraft Patent [NASA-CASE-XNP-02982] c 31 N70-41855

RANDLE, R. J., JR.
Visual accommodation trainer-tester [NASA-CASE-ARC-11426-1] c 09 N84-12193

RANDLE, ROBERT J.
Visual accommodation trainer-tester [NASA-CASE-ARC-11426-2] c 52 N89-16256

RANEY, J. P.
Buoyant anti-slosh system Patent [NASA-CASE-XLA-04605] c 32 N71-16106

RANSFORD, GARY A.
Digital data registration and differencing compression system [NASA-CASE-SSC-00010-1] c 82 N91-23976

RANSONE, PHILIP O.
Reusable high-temperature heat pipes and heat pipe panels [NASA-CASE-LAR-13761-1] c 34 N90-20323

Lightweight piston architecture [NASA-CASE-LAR-13926-1] c 37 N90-22042

- RAO, D. M.**
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
- RAPOSA, F. L.**
Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
- RAPOZA, E. J.**
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
- RASMUSSEN, H. P.**
Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
- RASMUSSEN, ROBERT D.**
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
- RASQUIN, J. R.**
Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179
Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125
Digital computing cardiachometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778
- RASSWEILER, G. G.**
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
- RATAJCZAK, A. F.**
Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
- RATCLIFF, L. P.**
Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
- RATHZ, T. J.**
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
- RAVAS, R. J.**
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
- RAVENHALL, R.**
Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468
- RAVINDRAM, M.**
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
- RAWLIN, V. K.**
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256
- RAWSON, J.**
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
- RAY, W. L.**
Remote fire stack igniter
[NASA-CASE-MFS-21675-1] c 25 N74-33378
- RAYBORN, G. H.**
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444
- RAYLE, W. D.**
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
- READ, F. G.**
Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351
- READ, W. S.**
Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
- READER, A. F.**
Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
- READER, P. D.**
Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
- REAM, L. W.**
Diesel engine catalytic combustor system
[NASA-CASE-LEW-12995-1] c 37 N84-33808
- REASONER, DAVID L.**
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
- RECHTER, H. L.**
Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
- REDDING, A. H.**
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
- REDDING, DAVID C.**
Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924
- REDMON, J. W.**
Air bearing assembly for curved surfaces
[NASA-CASE-MFS-20423] c 15 N72-11388
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
- REDMON, JOHN W., JR.**
Thermally isolated deployable shield for spacecraft
[NASA-CASE-MFS-28524-1] c 18 N91-25167
- REDMON, JOHN W., SR.**
Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959
- REECE, GARLAND D.**
Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684
Liquid cooled supersonic total temperature probe
[NASA-CASE-LAR-14435-1-CU] c 09 N91-26159
Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586
- REECE, O. Y.**
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
- REED, A. E.**
High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842
- REED, IRVING S.**
Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
- REED, J. H., JR.**
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
- REED, JASON C.**
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
- REED, L.**
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
- REED, R. D.**
Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
- REED, W. H., III**
Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
- REINHARDT, G.**
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
- REINHARDT, V.**
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580
- Suspended mass impact damper Patent**
[NASA-CASE-LAR-10193-1] c 15 N71-27146
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
- REED, WILMER H.**
Airtail flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
- REED, WILMER H., III**
Torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N91-21176
- REEDER, JAMES R.**
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430
- REESE, P. B.**
Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097
- REGNIER, W. W.**
Passive propellant system
[NASA-CASE-MFS-23642-2] c 20 N78-27176
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
- REHAGE, J. R.**
Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
- REIBER, J. H. C.**
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
- REICHMAN, B.**
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
- REID, ALAN J.**
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
- REID, H. J. E., JR.**
Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
Altitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
- REID, H., JR.**
Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
- REID, M. A.**
Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
- REID, M. S.**
Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214
- REID, R.**
Spacecraft docking and alignment system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
- REID, W. J.**
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
- REILLY, N. B.**
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448
- REILLY, T. H.**
Medical diagnosis system and method with multispectral imaging
[NASA-CASE-NPO-14402-1] c 52 N81-27783
- REILLY, W. W.**
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

REINHARDT, V. S.

- Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454

REINHOLD, H. W.

- Circuit breaker utilizing magnetic latching relays
Patent
[NASA-CASE-MSC-11277] c 09 N71-29008

REINISCH, R. F.

- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315

REINITZ, K.

- Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401

REISS, D. A.

- Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767

REISS, DONALD A.

- Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968

REIMBAUM, A.

- Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c 35 N75-25122
Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
Pressure transducer
[NASA-CASE-NPO-11150] c 35 N78-17359
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262

REMPEL, R. C.

- Optically pumped resonance magnetometer for determining vectorial components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428

REMPFER, P. S.

- Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004

RENNELS, D.

- Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518

RENNER, W.

- Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435

RENNIE, P. A.

- Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694

RESWICK, J. B.

- Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772

REYNOLDS, G. H.

- Stabilized lanthanum sulphur compounds
[NASA-CASE-NPO-18135-1] c 25 N83-24572

REYNOLDS, H. I.

- Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227

REYNOLDS, J. M.

- Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662

REYNOLDS, JOHN M.

- Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

REYNOLDS, W. E.

- Circuit breaker utilizing magnetic latching relays
Patent
[NASA-CASE-MSC-11277] c 09 N71-29008

RHEIN, R. A.

- Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515

RHIM, W. K.

- Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142

RHO, J. H.

- Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754

RHODES, C. M.

- Method for retarding dye fading during archival storage of developed color photographic film
[NASA-CASE-MFS-23250-1] c 35 N82-11432

RHODES, D. B.

- Optical scanner
[NASA-CASE-LAR-11711-1] c 74 N78-17866
Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712

RHODES, DAVID B.

- Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392
Schlieren system for visualizing the flow within a pipe of circular cross-section
[NASA-CASE-LAR-13944-1] c 35 N92-11336

RHODES, L. L.

- Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162

RHODES, M. D.

- Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737

RHODES, MARVIN D.

- Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492
Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N91-15544
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199

RHODES, P. H.

- Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

RHODES, PERCY

- Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250

RHODES, PERCY H.

- Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845
Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793

RIAZ, M.

- Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364

RIBARICH, J. J.

- Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621

RICCITELLO, S. R.

- Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232

RICCITELLO, S. R.

- Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572

- Flexible fire retardant polyisocyanate modified neoprene foam
[NASA-CASE-ARC-10180-1] c 27 N74-12814

- Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037

- Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096

- Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180

- Ambient cure polyimide foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215

- Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100

- Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides
[NASA-CASE-ARC-11107-1] c 25 N80-16116

RICCITELLO, SALVATORE R.

- Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698

- Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737

- Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628

- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040

- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

RICE, R. F.

- Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154

- Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240

RICE, R. R.

- Cryogenic storage system Patent
[NASA-CASE-XMS-04390] c 31 N70-41871

RICE, R. W.

- Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464

RICE, S. H.

- Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308

- Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

- Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058

RICE, W. J.

- Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345

- Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559

RICH, E., JR.

- Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413

- Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086

RICHARD, C. E.

- Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877

RICHARD, H. L.

- Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650

RICHARD, R. R.

- Angular accelerometer Patent
[NASA-CASE-XMS-05936] c 14 N70-41682

RICHARDS, R. R.

- Method for detecting pollutants
[NASA-CASE-LAR-11405-1] c 45 N76-31714

RICHARDS, W. E.

- Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722

RICHARDSON, J. I.

- Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085

RICHARDSON, JOHN R.

- Photorefractor optical screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874

RICHARDSON, R. W.

- Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122

RICHLEY, E. A.

- Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980

RICHMOND, J. C.

- Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample Patent
[NASA-CASE-XGS-05291] c 23 N71-16341

RICHTER, C. G.

- Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411

RICHTER, H. L.

- Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696

RICHTER, I. A.

- Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431

RICHTER, R.

- Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710

- RICKETTS, R. H.**
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
- RIEBE, J. M.**
Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
- RIEBLING, R. W.**
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
- RIED, ROBERT C.**
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N91-13483
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N92-21999
- RIEKER, L. L.**
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
- RIGGS, K. E.**
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
- RILEY, J. F.**
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
- RILEY, T. J.**
Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
- RINARD, G. A.**
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472
- RINDNER, W.**
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680
Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
- RINEHART, D.**
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
- RINGELMAN, J. F.**
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
- RIPPY, R. R.**
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
- RITCHIE, D. G.**
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483
- RITCHIE, D. W.**
Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050
- RITCHIE, R. S.**
Slide release mechanism
[NASA-CASE-MSC-20080-1] c 37 N85-30334
- RITCHIE, V. S.**
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
- RITTER, D. L.**
Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
- RLOFF, K. L.**
Dual wavelength scanning Doppler velocimeter
[NASA-CASE-ARC-10637-1] c 35 N75-16783
- ROACH, J. E.**
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213
- ROBBINS, H. J.**
Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
- ROBBINS, WILLIAM E.**
Fiber optic microphone
[NASA-CASE-LAR-14402-1-CU] c 74 N91-15874
- ROBELEN, D. B.**
Deploy/release system
[NASA-CASE-LAR-11575-1] c 02 N76-16014
- ROBERTS, ANDREW C.**
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
- ROBERTS, D. E.**
Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MSC-15158-1] c 14 N72-17325
- ROBERTS, D. L.**
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
- ROBERTS, E. J.**
Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484
- ROBERTS, M. L.**
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
- ROBERTS, PAUL W.**
Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N92-10185
- ROBERTS, V. W.**
Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
- ROBERTSON, A. J.**
Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
- ROBERTSON, GLEN A.**
Piezoelectrostatic generator
[NASA-CASE-MFS-28298-1] c 76 N91-14872
Electromagnetic Meissner effect launcher
[NASA-CASE-MFS-28323-1] c 14 N92-15081
- ROBERTSON, J. B.**
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
- ROBERTSON, JAMES B.**
Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831
Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911
Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950
- ROBERTSON, K. B.**
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
- ROBERTSON, W. L.**
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
- ROBEY, JUDITH L.**
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
- ROBILLARD, G.**
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
- ROBINS, A. W.**
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
- ROBINSON, G. P.**
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
- ROBINSON, M.**
Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578
- ROBINSON, M. B.**
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
- ROBINSON, MICHAEL B.**
Apparatus and method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
- ROBINSON, P. A., JR.**
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
- ROBINSON, R. K.**
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
- ROBINSON, ROBERT L.**
Four-terminal electrical testing device
[NASA-CASE-MSC-21166-1] c 35 N87-25555
- ROBINSON, W. J., JR.**
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
- ROBSON, P. N.**
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
- ROCHOW, S. E.**
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121
Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
- RODNER, W. H.**
Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
- RODRIGUEZ, G. E.**
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392
- RODRIGUEZ, GUILLERMO**
High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N92-17895
- RODRIGUEZ, DAGOBERT**
Closed-loop motor control using high-speed fiber optics
[NASA-CASE-MSC-21806-1] c 74 N92-17863
- ROE, FRED D., JR.**
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
- ROEBELEN, GEORGE J., JR.**
High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132
- ROEDER, E. R.**
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
- ROESKE, P. W.**
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
- ROGALLO, F. M.**
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038
- ROGALLO, V. L.**
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856
Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Thermo-protective device for balances Patent
[NASA-CASE-XAC-00648] c 14 N70-40400
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
- ROGERS, F. O.**
Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532
- ROGERS, J. R.**
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465
Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
- ROGOWSKI, R. S.**
Method for detecting pollutants
[NASA-CASE-LAR-11405-1] c 45 N76-31714
Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
- ROGOWSKI, ROBERT S.**
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
- ROHATGI, N. K.**
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371

- Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
- ROLF, E.**
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
- ROLIK, G. P.**
Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
- ROLLER, R. F.**
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
- ROLLINS, FRED P.**
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035
- ROLLINS, G. N.**
System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132
- ROLLINS, J. R.**
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
- ROM, F. E.**
Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
- ROMAN, J. A.**
Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07659-1] c 05 N71-26293
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
- ROMAN, R. F.**
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
- ROMANCZYK, K. C.**
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
- ROMANOVSKY, ROBERT R.**
Monolithic mm-wave phase shifter using optically activated superconducting switches
[NASA-CASE-LEW-14878-1] c 74 N91-13996
Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552
- ROMMEL, M. A.**
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
- ROMVARY, E., JR.**
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
- RONEY, B. W.**
Evacuation valve
[NASA-CASE-LAR-10061-1] c 15 N72-31483
- ROOT, G. L.**
Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451
- RORVIG, MARK E.**
General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911
- ROSALLES, L. A.**
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
- ROSE, S. D.**
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
- ROSEN, H. A.**
Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
- ROSEN, L.**
Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
- ROSENBAUM, B. J.**
Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257
- ROSENBLUM, L.**
Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
- ROSENGREN, L. G.**
Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
- ROSIER, W. R.**
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
- ROSS, A. D.**
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
- ROSIN, S.**
Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857
Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393
- ROSINSKI, W. K.**
Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
- ROSITANO, S. A.**
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
- ROSS, B.**
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
- ROSS, BRIAN**
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N91-13483
- ROSS, BRIAN P.**
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N92-21999
- ROSS, L. O.**
Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
- ROSS, WALTER L.**
A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492
- ROSSER, R. W.**
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
The 1,2,4-oxadiazole elastomers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
Bifunctional monomers having terminal oxime and cyano or amide groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
- ROSSI, B. B.**
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
- ROSSOW, V. J.**
Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
- ROTH, H.**
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
- ROTMAN, A.**
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
- ROUDEBUSH, W. H.**
Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
- ROUGE, C. J.**
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-2] c 27 N91-32229
- ROUGE, CARL J.**
Oxidation resistant coatings for titanium alloys and titanium alloy matrix composites
[NASA-CASE-LEW-15155-1] c 27 N91-26375
- ROUGHTON, N. A.**
Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329
- ROUSEY, W. J.**
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
- ROUTH, D. E.**
Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
- ROUZER, L. E.**
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
- ROWE, H. E.**
Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
- ROWLAND, C. W.**
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
- ROWLETTE, J. J.**
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
- ROWLEY, P. D.**
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
- ROY, N. L.**
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
Particle parameter analyzing system
[NASA-CASE-XLE-06094] c 33 N78-17293
Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
- ROY, U.**
Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
- ROYSTER, D. M.**
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
- ROYSTON, JAMES D.**
Improved superconducting bearings
[NASA-CASE-GSC-13346-1] c 37 N91-28578
- ROZAS, P.**
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
- RUBERT, K. F.**
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789

- RUBIN, B.**
Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
- RUBIN, D. C.**
Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680
- RUBIN, I.**
Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
- RUCKER, MICHELLE A.**
High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N91-21157
- RUDDOCK, K. A.**
Optically pumped resonance magnetometer for determining vectoral components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
- RUDEMAN, I. W.**
Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750
- RUDMANN, A. A.**
Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
- RUDNICK, I.**
Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
- RUDNICK, JOSEPH**
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
- RUHR, W. C.**
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
- RUHNKE, L. H.**
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
- RUITBERG, A. P.**
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
- RUIZ, W. V.**
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
- RUMBLE, C. V.**
Means for accommodating large overstrain in lead wires
[NASA-CASE-LAR-10168-1] c 33 N74-22865
- RUMMEL, J. A.**
Metabolic analyzer
[NASA-CASE-MFS-21415-1] c 52 N74-20728
- RUMMLER, D. R.**
Automatic force measuring system Patent
[NASA-CASE-XLA-02605] c 14 N71-10773
Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
- RUNDELL, D. J.**
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
- RUOFF, C. F.**
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
- RUOFF, C. F., JR.**
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
- RUOFF, CARL F.**
Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616
- RUPE, J. H.**
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
- RUPNIK, D. R.**
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
- RUPP, C. C.**
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
- RUPPE, E. P.**
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- RUSSELL, C. H.**
Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
- RUSSELL, G. R.**
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
- RUSSELL, J. M., III**
Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
- RUSSELL, JIM K.**
Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958
- RUSSELL, L. D.**
High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
- RUSSELL, PHILIP B.**
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
- RUSSELL, W. E.**
Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
- RUST, R.**
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
- RUTLEDGE, C. W.**
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
- RUTLEDGE, SHARON K.**
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
- RYAN, C. R.**
Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
- RYAN, E. W.**
Thrust reverser for a long duct fan engine
[NASA-CASE-LEW-13199-1] c 07 N82-26293
- RYAN, G. G.**
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
- RYASON, P. R.**
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
- RYBICKI, G. C.**
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- S**
- SABAROFF, S.**
Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265
- SABELMAN, E. E.**
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Ferroluicid solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185
- SABOL, A. P.**
Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144
Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
- SACHSE, GLEN W.**
Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N91-23889
- SACKS, B. H.**
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
- SADHUKHAN, P.**
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
- SADR, RAMIN**
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712
- SAFFREN, M. M.**
Material suspension within an acoustically excited resonant chamber
[NASA-CASE-NPO-13263-1] c 12 N75-24774
Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
- SAHINKAYA, Y.**
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
- SAINSBURY-CARTER, J. B.**
Bonded joint and method
[NASA-CASE-LAR-10900-1] c 37 N74-23064
- SAINTCLAIR, ANNE K.**
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
- SAINTCLAIR, T. L.**
Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263
- SAINTCLAIR, TERRY L.**
Novel polyimide compositions based on 4,4'-isophthaloyldiphthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
- SAKELLARIS, P. C.**
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466
- SALAMA, A. M.**
Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
- SALAZAR, GEORGE A.**
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371
Reconfigurable fuzzy cell
[NASA-CASE-MSC-21613-1] c 61 N92-10331
- SALEMME, C. T.**
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468
- SALIK, JOSHUA**
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
- SALISBURY, D. P.**
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- SALISBURY, J. K., JR.**
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
- SALISBURY, KENNETH, JR.**
Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616
- SALMIRS, S.**
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582

SALOMON, P. M.

Programmable scan/read circuitry for charge coupled device imaging detectors
[NASA-CASE-NPO-15345-1] c 74 N84-23247

SALTER, W. E.

Pseudo-noise test set for communication system evaluation
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426

SALTZMAN, E. J.

Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

SALVINSKI, R. J.

Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185

SAMFIELD, E.

Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936

SAMONSKI, F. H., JR.

Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297

SAMPELL, JEFFREY B.

Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N92-16563

SAMS, CLARENCE F.

A culture vessel with large perfusion area to volume ratio
[NASA-CASE-MSC-21662-1] c 51 N91-17531

SAMSON, J. A. R.

Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461

SAMSON, R.

Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600

SAN MIGUEL, A.

Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091

SANDBORN, V. A.

Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576

SANDER, R. C.

Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866

SANDERS, B. W.

Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646

SANDERS, FRED G.

Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979

SANDFORD, M. C.

Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552

SANDROCK, G. D.

High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415

SANDSTROM, D. B.

Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199

SANG, Q. TRAN

Vapor fragrancier
[NASA-CASE-LAR-13680-1] c 35 N87-25561

SANTARPIA, D.

Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654

SARBOLOUKI, M. N.

Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400

SARGISSON, D. F.

Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056

Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066

Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

SATER, B. L.

Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455

SAUER, L. S.

Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997

SAUER, R. L.

Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804

SAUER, RICHARD L.

Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755

SAUER, T. H.

Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429

SAUERS, D. G.

Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
Lightweight electrically-powered flexible thermal laminate
[NASA-CASE-MSC-12662-1] c 33 N79-12331

SAUNDERS, A. A., JR.

Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

SAUNDERS, A. R.

A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520

SAUNDERS, J. M.

Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126

SAUNDERS, M. T.

Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197

SAUTER, R. J.

Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014

SAVAKIS, ANDREAS E.

Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385

SAWKO, P. M.

Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147

Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562

Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230

Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096

Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180

Ambient cure polyimide foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215

Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100

Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides
[NASA-CASE-ARC-11107-1] c 25 N80-16116

Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999

SAWKO, PAUL M.

Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236

SAWYER, C. D.

Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913

SAWYER, D. E.

Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199

SAWYER, J. T.

Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931

Braided composite fasteners and method for producing same
[NASA-CASE-LAR-14062-1] c 37 N90-27114

SAWYER, R. V.

Electrical servo actuator bracket
[NASA-CASE-FRC-11044-1] c 37 N81-33483

Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839

SAYAH, HOSHYAR R.

Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

SCAPICCHIO, A. J.

Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354

SCARPELLI, AUGUST R.

Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

SCHACH, M.

Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039

SCHACHT, W. F.

Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266

SCHACHTER, M. M.

Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-GSC-01231] c 14 N70-41676

SCHAEFER, D. H.

Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743

Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778

Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787

Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602

Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693

Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852

Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751

Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709

SCHAEFER, G. J.

Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

SCHAEER, G. R.

Method of making porous conductive supports for electrodes
[NASA-CASE-GSC-11367-1] c 44 N74-19692

SCHAEFER, G. L.

Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468

SCHAFFERT, J. C.

Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819

SCHALLER, N. C.

Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416

SCHANSMAN, R. R.

Photoelectric detection system
[NASA-CASE-MFS-23776-1] c 33 N82-28545

SCHAPPERT, G. T.

Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343

SCHAU, R. B.

Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356

SCHIEBE, H.

Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853

SCHIEIN, MICHAEL E.

Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578

SCHILL, J. T.

Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892

SCHEMBER, HELENE

Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917

SCHER, M. P.

Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624

SCHER, S. H.

Hot air ballon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037

SCHIER, J. ALAN

Torque sensor having a spoked sensor element support structure
[NASA-CASE-NPO-17461-1-CU] c 35 N91-17350

- Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380
- SCHIFFNER, G.**
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
- SCHILLER, J. G.**
Method and device for the detection of phenol and related compounds
[NASA-CASE-LEW-12513-1] c 25 N79-22235
- SCHILLING, CHRISTOPHER H.**
Method and apparatus for producing microshells
[NASA-CASE-NPO-16635-1-CU] c 31 N91-32240
- SCHIMMEL, MORRY L.**
Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
Improving the performance of blasting caps
[NASA-CASE-LAR-13832-1] c 28 N91-28444
Ignitability test method and apparatus
[NASA-CASE-LAR-14454-1] c 25 N91-32196
- SCHINDLER, R. A.**
Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
Interferometer
[NASA-CASE-NPO-14448-1] c 74 N81-29963
- SCHLESINGER, F. W.**
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
- SCHLESING, J. A.**
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
- SCHLESING, JOHN A.**
Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126
Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374
- SCHLOSS, A. L.**
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
- SCHMIDT, DEBORAH D.**
High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
- SCHMIDT, DEBORAH DIANE**
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462
- SCHMIDT, E. E.**
Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283
- SCHMIDT, H. W.**
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
- SCHMIDT, K. C.**
Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317
- SCHMIDT, L. F.**
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
- SCHMIDT, R.**
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
- SCHMIDT, R. F.**
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
Dish antenna having switchable beamwidth
[NASA-CASE-GSC-11760-1] c 33 N75-19516
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
- Variable beamwidth antenna
[NASA-CASE-GSC-11862-1] c 32 N76-18295
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
- SCHMIDT, SUSAN B.**
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
- SCHMIDT, W. G.**
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
- SCHMITTAL, WESLEY P.**
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880
- SCHMITT, A. L.**
Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552
- SCHMITZ, B. W.**
Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931
- SCHMITZ, F. H.**
Acoustically swept rotor
[NASA-CASE-ARC-11106-1] c 05 N80-14107
- SCHNEIDER, R. T.**
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920
Safety flywheel
[NASA-CASE-HQN-10888-1] c 44 N79-14527
- SCHNEIDER, STEVEN J.**
Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024
Method of injecting fluid propellants into a rocket combustion chamber
[NASA-CASE-LEW-14846-2] c 20 N91-26200
Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N92-10054
- SCHNEIDER, W. C.**
Auger attachment method for insulation
[NASA-CASE-MSC-12615-1] c 37 N76-19437
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
- SCHNEIDER, WILLIAM C.**
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
Preloaded brake disc
[NASA-CASE-MSC-21132-1] c 37 N88-29181
Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390
Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007
- SCHNITZER, E.**
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
- SCHNOPPER, H. W.**
Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491
- SCHOEN, A. H.**
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
Honeycomb core structures of minimal surface tubule sections
[NASA-CASE-ERC-10363] c 18 N72-25541
Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
- SCHOLL, J. A.**
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
- SCHOMBURG, C.**
Densification of porous refractory substrates
[NASA-CASE-MSC-18737-1] c 24 N83-13171
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
- SCHORUM, S. W.**
High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
- SCHOTT, TIMOTHY D.**
Method of attaching strain gauges to various materials
[NASA-CASE-LAR-13797-1] c 35 N88-30108
- SCHRADER, J. H.**
Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
- SCHREDER, K. D.**
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
- SCHROEDER, J. E.**
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
- SCHRYER, DAVID R.**
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270
- SCHUBERT, F. H.**
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
- SCHUBERT, FRANZ H.**
Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271
- SCHUBERT, W. W.**
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
- SCHUERER, P. H.**
Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
- SCHULLER, F. T.**
Journal bearings
[NASA-CASE-LEW-11076-1] c 37 N74-21061
Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
- SCHULTZ, D. F.**
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
- SCHULTZ, DONALD F.**
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824
- SCHUMACHER, L. L.**
Wide angle sun sensor
[NASA-CASE-NPO-13327-1] c 35 N75-23910
- SCHUMACHER, LARRY L.**
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512
- SCHUSTER, D. M.**
Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-NPO-01193] c 10 N71-16057
- SCHUSTER, M. A.**
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
- SCHUTT, J. B.**
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581
Ultraviolet light reflective coating
[NASA-CASE-GSC-11786-1] c 24 N76-24363
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044
- SCHUTZENHOFER, L. A.**
Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273

SCHWAB, W. B.

- Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-1] c 31 N78-17237
- Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336

SCHWARTZ, I. R.

- Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218

SCHWARZ, F. C.

- Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
- Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
- Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
- Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
- Analog Signal to Discrete Time Interval Converter (ASDTIC)
[NASA-CASE-ERC-10048] c 09 N72-25251
- Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
- Load insensitive electrical device
[NASA-CASE-XER-11046-2] c 33 N74-22864

SCHWARZ, RAY P.

- Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N91-13860
- A culture vessel with large perfusion area to volume ratio
[NASA-CASE-MSC-21662-1] c 51 N91-17531
- Rotating bio-reactor cell culture apparatus
[NASA-CASE-MSC-21293-1] c 51 N91-21700
- Horizontally rotated cell culture system with a coaxial tubular oxygenator
[NASA-CASE-MSC-21294-1] c 51 N91-30667

SCHWINGHAMER, R. J.

- Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179
- Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
- Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
- Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
- Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148

SCHWUTTKKE, G. H.

- Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
- Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

SCARCCA, T. P.

- Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982

SCOGGINS, J. R.

- Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007

SCOPELIANOS, A. G.

- Process for the preparation of polycarbonylphosphazenes
[NASA-CASE-ARC-11176-2] c 27 N81-27271
- Carbonylchlorotriphosphazenes and their polymers
[NASA-CASE-ARC-11176-1] c 27 N82-18389
- Carbonylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

SCOTT, C. E.

- Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437

SCOTT, C. N.

- Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708

SCOTT, D. R.

- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- Electrical self-aligning connector
[NASA-CASE-MFS-25211-2] c 33 N84-14423

SCOTT, R. F.

- Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362

SCOTT, R. R.

- Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049

SCOTT, ROBERT O.

- Method of controlling a resin curing process
[NASA-CASE-MSC-21169-1] c 27 N89-29539

SCOTT, S. G.

- Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313

SCOTT, W. L.

- Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013

SCOTTI, STEPHEN J.

- Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072

SCOW, J.

- Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909

SCROOP, F. R.

- Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192

SCUDDER, L. R.

- Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468

SCULLY, P. T.

- Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658

SEA, R. G.

- Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461

SEABAUGH, A. C.

- Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789

SEAMAN, C. H.

- Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510

SEATON, A. F.

- Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
- Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
- Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127

SEATON, S. L.

- Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
- Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
- Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
- Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914

SEAY, B. P., JR.

- Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468

SEBACHER, D. I.

- Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607

SECKEL, E.

- Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930

SECRETAN, L.

- Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988

SEEGMILLER, H. L. B.

- Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072

SEEGMILLER, HENRY L. B.

- Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255

SEIDEL, B. L.

- Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261

SEIDEL, GERHARD E.

- Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738

SEIDENBERG, B.

- Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
- Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100

SEIDENBERG, BENJAMIN

- Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133

- Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541

SEILER, E. E.

- Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285

SEITZ, T. E.

- Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084

SEITZINGER, V. F.

- Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583

- Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858

SELCHUK, M. K.

- Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582

- Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526

- Non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c 44 N79-11471

- Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518

- Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204

SELLEN, J. M., JR.

- Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014

- Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086

SELLERS, F. J.

- Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

SENNOTT, J. W.

- Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546

SENSENY, R. M.

- Fire extinguishing apparatus having a slidable mass for a penetrator nozzle
[NASA-CASE-KSC-11064-1] c 31 N81-14137

SERAFINI, T. T.

- Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980

- Curing agent for polyepoxides and epoxy resins and composites cured therewith
[NASA-CASE-LEW-13226-1] c 27 N81-17260

- Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296

- Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392

SERAJI, HOMAYOUN

- Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846

- Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544

- Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N91-23783

SETZER, D.

- Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595

SEWARD, H. H.

- Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389

- Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409

SEYFFERT, M. B.

- Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616

SEYL, J. W.

- Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391

SHACK, R. V.

- Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396

SHADY, D. L.

- Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450

SHAEFER, D. H.

- Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731

SHAHER, J. I.

- Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810

- Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
- SHAFFER, C. V.**
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
- SHAI, C. M.**
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
- SHAI, M. C.**
Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044
- SHAKKOTTAI, PARTHASARATHY**
Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N92-10609
- SHALHOUB, I. M.**
The 1,2,4-oxadiazole elastomers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
- SHALKHAUSER, MARY JO W.**
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128
- SHALKHAUSER, KURT A.**
Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552
- SHALKHAUSER, MARY J.**
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
- SHALTENS, R. K.**
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
- SHANKAR, N. K.**
Ultraportable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411
- SHANKS, G. C.**
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
- SHANNON, R. L.**
Plasma cleaning device
[NASA-CASE-MFS-22906-1] c 75 N78-27913
- SHANNON, R. R.**
Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
- SHAPIRO, H.**
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489
- SHARMA, G. C.**
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
- SHARMA, M. M.**
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
- SHARMA, PRAMOD K.**
Regenerative Cu/La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073
- SHARPE, M. H.**
Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
- SHARPE, MAX H.**
Sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N92-16123
- SHATZSKY, R.**
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
- SHATTUCK, R. D.**
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
- SHAW, C. S.**
Exhaust flow deflector
[NASA-CASE-LAR-11570-1] c 34 N76-18364
- SHAW, D. S.**
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
- SHAW, G. C.**
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
- SHAW, R. C.**
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
- SHAW, SCOTT**
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317
- SHEARER, C. H.**
Stabilized lanthanum sulphur compounds
[NASA-CASE-NPO-16135-1] c 25 N83-24572
- SHEETS, R. E.**
Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c 35 N76-29551
- SHEFSIEK, P. K.**
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
- SHEIBLEY, D. W.**
Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-1] c 44 N79-17313
In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
In-situ cross linking of polyvinyl alcohol
[NASA-CASE-LEW-13135-2] c 27 N81-24257
Polyvinyl alcohol battery separator containing inert filler
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Additive for zinc electrodes
[NASA-CASE-LEW-13286-1] c 33 N84-14422
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
- SHELPUK, B.**
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
- SHELTON, G. B.**
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
System for the measurement of ultra-low stray light levels
[NASA-CASE-MFS-23513-1] c 74 N79-11865
- SHELTON, J. P., JR.**
Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483
- SHELTON, R. D.**
Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
- SHELTON, ROBERT O.**
An accelerated training method for back propagation networks
[NASA-CASE-MSC-21625-1] c 53 N91-28730
- SHEPARD, C. E.**
Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
- SHEPARD, L. F.**
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
- SHEPARD, N. F., JR.**
Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
- SHEPARD, S. K.**
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
- SHEPHERD, KEVIN P.**
Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N91-27913
- SHER, A.**
Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841
- SHERBURNE, A. E.**
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
- SHERFEY, J. M.**
Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
- SHERIDAN, PHILIP L.**
Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N91-21221
- SHERMAN, A.**
Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
- SHERWIN, E. J.**
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
- SHETH, S.**
Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
Process for spinning flame retardant elastomeric compositions
[NASA-CASE-MSC-14331-3] c 27 N78-32262
- SHETH, S. G.**
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
- SHEWMAKE, G. A.**
Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
- SHIEBER, H.**
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
- SHIELDS, NICHOLAS L.**
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
- SHIGEMOTO, F. H.**
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
- SHILLINGER, G. L., JR.**
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417
- SHIM, I. H.**
Recorder/processor apparatus
[NASA-CASE-GSC-11553-1] c 35 N74-15831
- SHIMA, R.**
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
- SHIMADA, K.**
Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421

- Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation [NASA-CASE-NPO-11388] c 03 N72-23048
- Electric power generation system directory from laser power [NASA-CASE-NPO-13308-1] c 36 N75-30524
- Thermostatically controlled non-tracking type solar energy concentrator [NASA-CASE-NPO-13497-1] c 44 N76-14602
- SHIMANSKY, R. A.**
- Safety shield for vacuum/pressure chamber viewing port [NASA-CASE-GSC-12513-1] c 31 N81-19343
- SHIMIZU, M.**
- Non-invasive method and apparatus for measuring pressure within a pliable vessel [NASA-CASE-ARC-11264-2] c 52 N83-29991
- SHIMODA, K.**
- Method and apparatus for stabilizing a gaseous optical maser Patent [NASA-CASE-XGS-03644] c 16 N71-18614
- SHIRA, C. S.**
- Method of heat treating age-hardenable alloys [NASA-CASE-XNP-01311] c 26 N75-29236
- SHIRE, L. I.**
- Direct heating surface combustor [NASA-CASE-LEW-11877-1] c 34 N78-27357
- SHLICHTA, P. J.**
- Electromigration process for the purification of molten silicon during crystal growth [NASA-CASE-NPO-14831-1] c 76 N82-30105
- Method and apparatus for minimizing convection during crystal growth from solution [NASA-CASE-NPO-15811-1] c 76 N84-12968
- Absorbable-susceptor joining of ceramic surfaces [NASA-CASE-NPO-15640-1] c 27 N84-22748
- Glass heating panels and method for preparing the same from architectural reflective glass [NASA-CASE-NPO-15753-1] c 27 N84-33589
- Method for growth of crystals by pressure reduction of supercritical or subcritical solution [NASA-CASE-NPO-15772-1] c 76 N85-29800
- Method of making macrocrystalline or single crystal semiconductor material [NASA-CASE-NPO-15904-1] c 76 N86-28760
- SHLICHTA, PAUL J.**
- Ballast system for maintaining constant pressure in a glove box [NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
- SHLOSINGER, A. P.**
- Heat pipe with dual working fluids [NASA-CASE-ARC-10198] c 34 N78-17336
- Multi-chamber controllable heat pipe [NASA-CASE-ARC-10199] c 34 N78-17337
- SHORES, P. W.**
- Position determination systems [NASA-CASE-MSC-12593-1] c 17 N76-21250
- Doppler radar having phase modulation of both transmitted and reflected return signals [NASA-CASE-MSC-18675-1] c 32 N84-22820
- SHORES, PAUL**
- Method and apparatus for measuring frequency and phase difference [NASA-CASE-MSC-20865-1] c 32 N87-18692
- SHORES, PAUL W.**
- Method and apparatus for measuring distance [NASA-CASE-MSC-20912-1] c 32 N88-26568
- Doppler radar with multiphase modulation of transmitted and reflected signal [NASA-CASE-MSC-18808-1] c 32 N90-20280
- SHORTTRIDGE, S. R.**
- Switching circuit employing regeneratively connected complementary transistors Patent [NASA-CASE-XNP-02654] c 10 N70-42032
- SHRIVER, C. B.**
- Method of making a filament-wound container Patent [NASA-CASE-XLE-03803-2] c 15 N71-17651
- Filament wound container Patent [NASA-CASE-XLE-03803] c 15 N71-23816
- Panelized high performance multilayer insulation Patent [NASA-CASE-MFS-14023] c 33 N71-25351
- SHRIVER, C. L.**
- Multichannel logarithmic RF level detector [NASA-CASE-LAR-11021-1] c 32 N76-14321
- SHRIVER, E. L.**
- Apparatus for determining the deflection of an electron beam impinging on a target Patent [NASA-CASE-XMF-06617] c 09 N71-24843
- Shock wave convergence apparatus [NASA-CASE-MFS-20890] c 14 N72-22439
- Self-energized plasma compressor [NASA-CASE-MFS-22145-1] c 75 N75-13625
- Two stage light gas-plasma projectile accelerator [NASA-CASE-MFS-22287-1] c 75 N76-14931
- Self-energized plasma compressor [NASA-CASE-MFS-22145-2] c 75 N76-17951
- Semiconductor projectile impact detector [NASA-CASE-MFS-23008-1] c 35 N78-18390
- SHROCK, C. G.**
- Determination of antimicrobial susceptibilities on infected urines without isolation [NASA-CASE-GSC-12046-1] c 52 N79-14750
- SHUBE, E. E.**
- Nose cone mounted heat resistant antenna Patent [NASA-CASE-XMS-04312] c 07 N71-22984
- SHULER, R. L., JR.**
- Real-time garbage collection for list processing [NASA-CASE-MSC-20964-1] c 60 N87-14863
- SHULL, T. A.**
- Digital demodulator [NASA-CASE-LAR-12659-1] c 33 N82-26570
- SHULMAN, A. R.**
- Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence [NASA-CASE-GSC-11133-1] c 23 N72-11568
- Method and apparatus for producing an image from a transparent object [NASA-CASE-GSC-11989-1] c 74 N77-28932
- SHUMATE, M. S.**
- Method and apparatus for aligning a laser beam projector Patent [NASA-CASE-NPO-11087] c 23 N71-29125
- Differential optoacoustic absorption detector [NASA-CASE-NPO-13759-1] c 74 N78-17867
- Method and apparatus for Doppler frequency modulation of radiation [NASA-CASE-NPO-14524-1] c 32 N80-24510
- Stark cell optoacoustic detection of constituent gases in sample [NASA-CASE-NPO-14143-1] c 25 N81-14015
- SHUMKA, A.**
- Space-charge-limited solid-state triode [NASA-CASE-NPO-13064-1] c 33 N79-11314
- Synchronized voltage contrast display analysis system [NASA-CASE-NPO-14567-1] c 33 N83-18996
- SHURE, L. I.**
- Protected isotope heat source [NASA-CASE-LEW-11227-1] c 73 N75-30876
- SHUTE, D. I.**
- Reference apparatus for medical ultrasonic transducer [NASA-CASE-ARC-10753-1] c 54 N75-27760
- SIDMAN, K. R.**
- Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant [NASA-CASE-MSC-14331-1] c 27 N76-24405
- Flame retardant spandex type polyurethanes [NASA-CASE-MSC-14331-2] c 27 N78-17213
- Process for spinning flame retardant elastomeric compositions [NASA-CASE-MSC-14331-3] c 27 N78-32262
- Heat sealable, flame and abrasion resistant coated fabric [NASA-CASE-MSC-18382-1] c 27 N82-16238
- Heat sealable, flame and abrasion resistant coated fabric [NASA-CASE-MSC-18382-2] c 27 N84-14324
- Heat resistant protective hand covering [NASA-CASE-MSC-20261-2] c 54 N84-23113
- Heat resistant protective hand covering [NASA-CASE-MSC-20261-1] c 54 N84-28484
- SIDNEY, BARRY D.**
- Isotope exchange in oxide-containing catalyst [NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
- SIDORAK, L. G.**
- Solar cell shingle [NASA-CASE-LEW-12587-1] c 44 N77-31601
- SIEBERT, C. J.**
- Flexible/rigidifiable cable assembly [NASA-CASE-MSC-13512-1] c 15 N72-22485
- SIEGEL, B.**
- Resonant infrasonic gauging apparatus [NASA-CASE-MSC-11847-1] c 14 N72-11363
- SIEGEL, C. M.**
- Epitaxial thinning process [NASA-CASE-NPO-15786-1] c 76 N84-35112
- SIEGMAN, A. E.**
- Laser system with an antiresonant optical ring [NASA-CASE-HQN-10844-1] c 36 N75-19653
- SIERADSKI, L. M.**
- Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump [NASA-CASE-NPO-13663-1] c 35 N77-14406
- SIEVERS, M. W.**
- High-speed data link for moderate distances and noisy environments [NASA-CASE-NPO-14152-1] c 32 N80-18252
- SIEWERT, R. D.**
- Fine particulate capture device [NASA-CASE-LEW-11583-1] c 35 N79-17192
- SIGFRED, J.**
- Length controlled stabilized mode-lock ND:YAG laser [NASA-CASE-GSC-11571-1] c 36 N77-25499
- SIGNORELLI, R. A.**
- Reinforced metallic composites Patent [NASA-CASE-XLE-02428] c 17 N70-33288
- Method of making fiber reinforced metallic composites Patent [NASA-CASE-XLE-00231] c 17 N70-38198
- Method of making fiber composites [NASA-CASE-LEW-10424-2-2] c 18 N72-25539
- SIGUR, W. A.**
- Method of fabricating composite structures [NASA-CASE-MFS-28390-1] c 24 N91-15333
- SIKORA, P. F.**
- High temperature testing apparatus Patent [NASA-CASE-XLE-00335] c 14 N70-35368
- SIKORRA, D. J.**
- Apparatus for overcurrent protection of a push-pull amplifier Patent [NASA-CASE-MSC-12033-1] c 09 N71-13531
- SILCOX, RICHARD J.**
- Multi-degree of freedom, active vibration control method, and system [NASA-CASE-LAR-14508-1-CU] c 39 N92-10202
- SILVER, R. H.**
- Means and method of measuring viscoelastic strain Patent [NASA-CASE-XNP-01153] c 32 N71-17645
- Miniature stress transducer Patent [NASA-CASE-XNP-02983] c 14 N71-21091
- Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test [NASA-CASE-NPO-10778] c 14 N72-11364
- Subminiature insertable force transducer [NASA-CASE-NPO-13423-1] c 33 N75-31329
- Strain gage mounting assembly [NASA-CASE-NPO-13170-1] c 35 N76-14430
- Miniature muscle displacement transducer [NASA-CASE-NPO-13519-1] c 33 N76-19338
- Myocardium wall thickness transducer and measuring method [NASA-CASE-NPO-13644-1] c 52 N76-29895
- Catheter tip force transducer for cardiovascular research [NASA-CASE-NPO-13643-1] c 52 N76-29896
- SILVERMAN, J. R.**
- Programmable telemetry system Patent [NASA-CASE-GSC-10131-1] c 07 N71-24624
- SILVERTSON, W. E., JR.**
- Logical function generator [NASA-CASE-XLA-05099] c 09 N73-13209
- SILVESTER, JOHN A.**
- Dynamic resource allocation scheme for distributed heterogeneous computer systems [NASA-CASE-NPO-17197-1-CU] c 62 N91-25693
- SIMAS, V. R.**
- Optimum predetection diversity receiving system Patent [NASA-CASE-XGS-00740] c 07 N71-23098
- SIMCHICK, RICHARD T.**
- Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace [NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
- SIMMONDS, M. R.**
- Self-contained breathing apparatus [NASA-CASE-MSC-14733-1] c 54 N76-24900
- SIMMONDS, P. G.**
- Atmospheric sampling devices [NASA-CASE-NPO-11373] c 13 N72-25323
- Electrolytic gas operated actuator [NASA-CASE-NPO-11369] c 15 N73-13467
- Compact hydrogenator [NASA-CASE-NPO-11682-1] c 35 N74-15127
- SIMMONS, G. M.**
- Preparing oxidizer coated metal fuel particles [NASA-CASE-NPO-11975-1] c 28 N74-33209
- SIMMONS, W. H.**
- Indexed keyed connection Patent [NASA-CASE-XMS-02532] c 15 N70-41808
- SIMON, M. K.**
- Data-aided carrier tracking loops [NASA-CASE-NPO-11282] c 10 N73-16205
- Decision feedback loop for tracking a polyphase modulated carrier [NASA-CASE-NPO-13103-1] c 32 N74-20811
- Coherent receiver employing nonlinear coherence detection for carrier tracking [NASA-CASE-NPO-11921-1] c 32 N74-30523
- SIMON, MARVIN K.**
- Trellis coded modulation for transmission over fading mobile satellite channel [NASA-CASE-NPO-16904-2-CU] c 32 N91-14523

- Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N91-25316
- Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-27439
- SIMON, S. L.**
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
- SIMONTON, J. WAYNE**
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492
- SIMPKINS, L. G.**
Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
- SIMPSON, J. G.**
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
- SIMPSON, NORMAN R.**
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
- SIMPSON, W. E.**
Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
- SIMPSON, W. G.**
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
- Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
- Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c 37 N76-19436
- Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
- Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
- SIMPSON, WILLIAM G.**
Sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N92-16123
- SIMS, C. R.**
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
- SINCLAIR, A. R.**
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
- Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
- SINDERSON, RICHARD L.**
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371
- SINGER, FRED S.**
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412
- SINGER, S.**
Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
- SINGH, J. J.**
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
- Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444
- Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
- A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
- Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
- Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
- SINGH, JAG J.**
Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002
- Device for quickly sensing the amount of O₂ in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025
- Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936
- SINHA, M. P.**
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
- SINSKY, MARK S.**
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
- Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
- SIROCKY, P. J.**
Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
- SIROCKY, PAUL J.**
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
- High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560
- High temperature, flexible pressure-actuated, brush seal
[NASA-CASE-LEW-15086-1] c 37 N92-16318
- SISK, ROBERT C.**
Planar thin film SQUID with integral flux concentrator
[NASA-CASE-MFS-28282-1] c 76 N88-29602
- SIVERTSON, W. E., JR.**
Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
- Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
- Method of locating persons in distress
[NASA-CASE-LAR-11390-1] c 32 N77-21267
- Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
- SIVITER, J. H., JR.**
Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
- SIVLEY, J. B.**
Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
- SIZEMORE, K. O.**
Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
- SLATER, R. J.**
Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164
- SLAYDEN, M. D.**
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
- Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
- SLEEMAN, W. C., JR.**
Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038
- SLEMP, W. S.**
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
- SLIFER, L. W., JR.**
Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
- SLINEY, H. E.**
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
- Method of making self lubricating fluoride-metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105
- Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
- Bearing material
[NASA-CASE-LEW-11930-1] c 24 N76-22309
- Method of making bearing materials
[NASA-CASE-LEW-11930-4] c 24 N79-17916
- Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
- SLINEY, HAROLD E.**
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
- Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-27244
- SLOWIKOWSKI, D. F.**
Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
- SMALL, J. G.**
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
- SMALL, W. J.**
Orbiter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161
- SMIALEK, J. L.**
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- SMIALEK, JAMES L.**
Method of forming low cost, formable High T(subc) superconducting wire
[NASA-CASE-LEW-14676-2] c 76 N90-17454
- Oxidation resistant coatings for titanium alloys and titanium alloy matrix composites
[NASA-CASE-LEW-15155-1] c 27 N91-26375
- Low cost, formable, high T(sub c) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529
- SMILOWITZ, K.**
Programmable scan/read circuitry for charge coupled device imaging detectors
[NASA-CASE-NPO-15345-1] c 74 N84-23247
- SMISER, L. W.**
Method for repair of thin glass coatings
[NASA-CASE-KSC-11097-1] c 27 N82-33520
- SMITH, A. B.**
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
- SMITH, C.**
Counter and shift register Patent
[NASA-CASE-NXP-01753] c 08 N71-22897
- SMITH, D.**
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
- SMITH, D. L.**
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
- SMITH, DENNIS A.**
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
- SMITH, E. B.**
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
- SMITH, E. W.**
Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097
- Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360
- SMITH, EARNEST C.**
Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959
- SMITH, G. E.**
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
- SMITH, H. A.**
Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
- Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
- SMITH, H. E.**
Digital computing cardiometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778
- Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
- Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
- SMITH, H. J.**
Variable resistance constant tension and lubrication device
[NASA-CASE-KSC-10723-1] c 37 N75-13265
- SMITH, J. A.**
Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
- SMITH, J. G.**
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448
- SMITH, J. P.**
Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
- SMITH, J. R., JR.**
Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
- Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
- Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
- Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
- SMITH, J. W.**
Apparatus for damping operator induced oscillations of a controlled system
[NASA-CASE-FRC-11041-1] c 33 N82-18493
- SMITH, JOSEPH G., JR.**
Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560

- SMITH, KENNETH M.**
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
- SMITH, L.**
Low gravity phase separator
[NASA-CASE-MS-C-14773-1] c 35 N78-12390
- SMITH, L. G.**
Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408
- SMITH, L. H., JR.**
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
- SMITH, L. S.**
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
- SMITH, M.**
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Fibrous refractory composite insulation
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Adjustable high emittance gap filler
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
- SMITH, MARNELL**
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628
Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026
- SMITH, N. J.**
Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392
- SMITH, P. D.**
Shuttle-launch triangular space station
[NASA-CASE-MS-C-20676-1] c 18 N86-24729
- SMITH, R. E.**
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971
- SMITH, R. W.**
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
- SMITH, ROBBIE**
Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242
- SMITH, RONALD C.**
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
- SMITH, S. F.**
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
- SMITH, STEPHEN**
EMU helmet mounted display
[NASA-CASE-MS-C-21460-1] c 54 N91-13879
- SMITH, STEVEN A.**
Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MS-C-21434-1] c 37 N92-10197
- SMITH, T. B., III**
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
- SMITH, W. O.**
Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
- SMITH, W. R.**
Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681
- SMITH, W. W.**
Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931
- SMITH, WILLIAM CONRAD**
Electrostatic discharge test apparatus
[NASA-CASE-MS-C-21094-1] c 35 N88-24941
- SMITHRICK, J. J.**
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874
- SMOOT, G. F.**
Low gravity phase separator
[NASA-CASE-MS-C-14773-1] c 35 N78-12390
- SMYLYE, R. E.**
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
- SMYLY, H. M.**
Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
- SNEEDEN, R. J.**
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
- SNODDY, L. G.**
Insert facing tool
[NASA-CASE-MFS-21485-1] c 37 N74-25968
- SNOHA, JOHN J.**
Process for application of powder particles to filamentary materials
[NASA-CASE-LAR-14231-1] c 24 N92-10070
- SNYDER, J. A.**
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
- SNYDER, L. M.**
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
- SNYDER, P. K.**
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
- SNYDER, R. S.**
Method of crystallization
[NASA-CASE-MFS-23001-1] c 76 N77-32919
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
- SNYDER, ROBERT S.**
Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845
Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793
Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250
- SODD, V. J.**
Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681
- SOFFEN, G. A.**
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
- SOHL, G.**
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
- SOINI, H. E.**
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
- SOKOLOWSKI, D. E.**
Heat exchanger
[NASA-CASE-LEW-12252-1] c 34 N79-13288
- SOLOMON, G.**
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
- SOLITS, D. G.**
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
Additive for zinc electrodes
[NASA-CASE-LEW-13286-1] c 33 N84-14422
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
- SOMOANO, R. B.**
Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
- SONNENSCHIEIN, C. M.**
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
- SONNENSCHIEIN, G.**
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
- SORENSEN, C. E.**
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
- SORENSEN, N. E.**
Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969
The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
- SOTER, E. J.**
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
- SOTHERLUND, A. W., JR.**
Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874
- SOURS, W. P.**
Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477
- SOVEY, J. S.**
Modification of the electrical and optical properties of polymers
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
Texturing polymer surfaces by transfer casting
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Ion sputter textured graphite
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569
- SOVEY, JAMES S.**
Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
- SOWA, W. W.**
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
- SPADY, A. A., JR.**
Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
- SPAHN, CAROLL J.**
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MS-C-21170-1] c 17 N91-14371
- SPAIN, I. L.**
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
- SPALVINS, T.**
Deposition of alloy films
[NASA-CASE-LEW-11262-1] c 27 N74-13270
- SPANG, H. A., III**
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
- SPARKS, J. SCOTT**
Production of mullite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870
- SPARKS, R. H.**
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
- SPEARMAN, M. L.**
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
- SPEISER, R. C.**
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
- SPENCER, B., JR.**
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
- SPENCER, D. J.**
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
- SPENCER, J. L.**
Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
- SPENCER, P. R.**
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
- SPENCER, R. L.**
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
- SPENCER, R. S.**
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308

- Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
- SPENNY, WILLIAM E.**
Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
- SPIER, R. A.**
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
Vee-notching device
[NASA-CASE-MFS-20730-1] c 39 N74-13131
- SPIES, R.**
Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265
- SPITZE, L. A.**
Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
- SPITZER, C. R.**
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
- SPITZIG, W. A.**
Method of making a diffusion bonded refractory coating
Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
- SPRAGUE, BENNY B.**
Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610
- SPRECACE, R. P.**
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
- SPRINGER, L. R.**
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
- SPRINGETT, J. C.**
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
- SPRINGFIELD, C. L.**
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
- SPRINKLE, D. R.**
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
- SPRINKLE, DANNY R.**
Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002
- SPROSS, F. R.**
Biological isolation garment Patent
[NASA-CASE-MSC-12206-1] c 05 N71-17599
- SPUCK, W. H., III**
Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709
- SQUILLARI, W.**
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
- SQUYRES, H. P.**
Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941
- SRIDHARAN, GOVIND**
Transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N92-17907
- SRIVASTAVA, S. K.**
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
- SRIVASYTAVA, SANTASH**
Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N91-14587
- SRIVATSAN, RAGHAVACHARI**
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120
- ST. CLAIR, ANNE K.**
Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N91-28425
- ST. CLAIR, TERRY L.**
Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N91-28425
- ST. CLAIR, A. K.**
Crystalline polyimides
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
- ST. CLAIR, ANNE K.**
Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
Process for lowering the dielectric constant of polyimides using diamine acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N91-27220
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562
A process for preparing 1,3-diamino-5-pentafluorosulfanylbenzene and polymers therefrom
[NASA-CASE-LAR-14773-1-CU] c 27 N92-10105
Diphenylmethane-containing dianhydride and polyimides prepared therefrom
[NASA-CASE-LAR-14487-1] c 27 N92-11200
A process for preparing an assembly of an article and a polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14538-1] c 27 N92-11201
A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121
- ST. CLAIR, T. L.**
Crystalline polyimides
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
- Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
- ST. CLAIR, TERRY L.**
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559
Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N91-15403
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
Slow position beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936
A process for preparing 1,3-diamino-5-pentafluorosulfanylbenzene and polymers therefrom
[NASA-CASE-LAR-14773-1-CU] c 27 N92-10105
Processing for maximizing the level of crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-14481-1] c 25 N92-16043
- STACEY, A. B., JR.**
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
- STACEY, J. M.**
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
- STACK, JOHN P.**
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596
- STACY, J. E.**
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
- STADLER**
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519
- STADLER, HENRY L.**
Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438
- STAGNARO, MICHAEL J.**
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N91-13483
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N92-21999
- STALEY, S. D.**
Quick attach and release fluid coupling assembly
Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
- STAINBACK, J. D.**
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
- STALEY, H. W.**
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
- STALEY, R. W.**
Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
- STALLCOP, J. R.**
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
- STALLINGS, ROBERT L., JR.**
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N91-27156
- STALOFF, C.**
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
- STAMPS, J. C.**
Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485
- STANDAGE, A. E.**
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436
- STANFIELD, CLARENCE E.**
Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867

STANGE, W. C.

Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426

STANLEY, A. G.

Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332

STANLEY, JOHN E.

Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

STARK, K. W.

Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094

STARK, M. W.

Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392

STARKE, EDGAR A., JR.

Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

STARKEY, D. J.

Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445

STARNER, E. R.

Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331

STATMAN, JOSEPH I.

Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076

STATTEL, R. J.

Memory-based frame synchronizer
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

STAUGAITIS, C. L.

Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

STCLAIR, A. K.

High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039

STCLAIR, T. L.

Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516

STCLAIR, TERRY L.

Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950

STCLAIRE, T. L.

Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316

STEBBINS, F. J.

Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729

STECURA, S.

Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

STEELE, E. R.

Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948

Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132

STEELE, R. K.

Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563

STEENHAGEN, G.

Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454

STEENKEN, J.

Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924

STEIN, B. A.

Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125

STEIN, R. J.

Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768

STEIN, S.

Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736

STEINBERG, R.

Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436

STEINMETZ, BRUCE M.

High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560
High temperature, flexible pressure-actuated, brush seal
[NASA-CASE-LEW-15086-1] c 37 N92-16318
High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043

STEINMETZ, C. P.

Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754

STELBEN, J. J.

Recorder/processor apparatus
[NASA-CASE-GSC-11553-1] c 35 N74-15831

STELL, R. E.

In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092

STELLA, A. J.

Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734

STELTS, P. D.

Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225

STELTZIED, C. T.

Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420

STENGARD, E. O.

Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550

STENGEL, R. F.

Wind velocity probing device and method Patent
[NASA-CASE-XLA-02081] c 20 N71-16281

STENLUND, S. J.

Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164

STEPHANS, J. B.

Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460

STEPHENS, D. G.

Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387

Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169

STEPHENS, D. L.

Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

STEPHENS, J. B.

Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433

STEPHENS, J. B.

Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525
Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

STEPHENS, J. R.

Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484

STERMAN, A. P.

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410

STERN, N.

Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724

STERRETT, J. R.

Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170

STETSON, A. R.

Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040

STEUDL, R. M.

Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400

STEVENS, M. L.

Surface conforming thermal/pressure seal
[NASA-CASE-MSC-18422-1] c 37 N82-16408

STEVENS, M. R.

Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163

STEVENSON, L. E.

Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004

STEWART, C. H.

Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240

STEWART, D. A.

Adjustable high emittance gap filler
[NASA-CASE-ARC-11310-1] c 27 N82-24339
High temperature glass thermal control structure and coating
[NASA-CASE-ARC-11164-1] c 44 N83-34448

STEWART, ERIC C.

Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999

STEWART, R. B.

Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144

STEWART, W. L.

Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895

- Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
- STICKLE, J. W.**
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
- STIFFLER, J. J.**
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
- STIGBERG, J. D.**
Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
- STINE, H. A.**
Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
- STIRN, R. J.**
High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
- STIRN, RICHARD J.**
Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120
- STJOHN, R. H.**
Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
- STOAKLEY, D. M.**
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
- STOAKLEY, DIANE M.**
Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
Process for lowering the dielectric constant of polyimides using diamic acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546
A process for preparing an assembly of an article and a polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14538-1] c 27 N92-11201
A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121
- STOCKARD, R. R.**
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N89-27422
Method of making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438
- STOCKER, P. J.**
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
- STOCKS, C. D.**
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
- STOCKTON, R. J.**
Microwave switching power divider
[NASA-CASE-GSC-12420-1] c 33 N82-16340
- STOKES, C. S.**
Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097
Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360
- STOKES, R. C.**
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
- STOLLER, F. W.**
Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
- STOLTZFUS, JOEL M.**
High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N91-21157
- STONE, F. A.**
Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
- STONE, L. P.**
Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
- STONE, NOBIE H.**
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
- STONE, R. W., JR.**
G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
- STONE, S. E.**
Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
- STONEBURNER, J. D.**
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
- STORY, A. W.**
System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
- STOTLER, C. L., JR.**
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
- STOUGHTON, JOHN W.**
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
- STRAIGHT, D. M.**
Rocket motor system Patent
[NASA-CASE-XLE-00323] c 28 N70-38505
Gas turbine exhaust nozzle
[NASA-CASE-LEW-11569-1] c 07 N74-15453
- STRAND, L. D.**
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Nitramine propellants
[NASA-CASE-NPO-14103-1] c 28 N78-31255
- STRANGE, M. G.**
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
- STRASS, H. K.**
Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
- STREED, E. R.**
Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
- STRINGHAM, R. S.**
Vitra-violet process for producing flame resistant polyamides and products produced thereby
[NASA-CASE-MSC-16074-1] c 27 N80-26446
- STROCK, W. J.**
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
- STROCKY, PAUL J.**
High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043
- STROM, T. N.**
Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
Spiral groove seal
[NASA-CASE-XLE-10326-4] c 37 N74-15125
- STRONG, I. J.**
Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
- STRONG, J. P., III**
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
- STROUB, R. H.**
Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847
- STROUHAL, G.**
Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
- STROUP, E. R.**
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
- STRULL, G.**
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
- STRUTHOFF, G. L.**
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
- STUART, J. L.**
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
- STUART, J. W.**
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
- STUBBS, SANDY M.**
Method and apparatus for cleaning rubber deposits from airport runways and roadways
[NASA-CASE-LAR-14483-1] c 31 N91-28455
- STUCKEY, J. M.**
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
- STUDENICK, D. K.**
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
- STUDER, P. A.**
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
Magnetic bearing
[NASA-CASE-GSC-11079-1] c 37 N75-18574
Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Linear magnetic motor/generator
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
- STUDER, PHILIP A.**
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808
- STUMP, C. W.**
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
- STUMP, E. C., JR.**
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121
Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
- STURGIS, A. C.**
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759
- STURM, R. G.**
Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
- STURMAN, J. C.**
Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
- STYLES, C. M.**
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331
- SUDDATH, FRED L.**
Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815
- SUDEY, J.**
Low speed phaselock speed control system
[NASA-CASE-GSC-11127-1] c 09 N75-24758
- SUGG, FRANK E.**
Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966

SUITOR, JERRY W.
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423

SULLIVAN, D. B.
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447

SULLIVAN, E. M.
Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796

SULLIVAN, J. L.
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900

SULLIVAN, T. E.
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141

SULLIVAN, THOMAS A.
Method for producing oxygen from lunar materials
[NASA-CASE-MSC-21759-1] c 25 N92-12079

SUMIDA, J. T.
Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625

SUMMERFIELD, D. G.
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955

SUMMERS, R. H.
Geneva mechanism
[NASA-CASE-NPO-13281-1] c 37 N75-13266

SUPPLEE, F. H., JR.
Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696

SUPPLEE, FRANK H., JR.
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558

SUSZKO, S. F.
Skin friction balance
[NASA-CASE-LAR-13710-1] c 35 N90-17117

SUTLIFF, J. D.
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594

SUTTON, JOHN F.
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630

SUTTON, JOHN F.
Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438

SVETKOVSKY, PAUL A.
Differential current source
[NASA-CASE-GSC-13280-1] c 33 N91-27479

SVETKOVSKY, PAUL A.
Thruster sealing system and apparatus
[NASA-CASE-MSC-21898-1] c 37 N92-17872

SWAIM, R. J.
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571

SWAIN, R. L.
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

SWAN, SCOTT A.
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331

SWAN, SCOTT A.
Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514

SWANN, R. T.
Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979

SWANSON, CHARLES P.
Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721

SWANSON, CHARLES P.
Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959

SWANSON, THEODORE
Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541

SWARTZ, P. F.
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605

SWEAT, J. C.
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067

SWEET, G. E.
Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484

SWEET, G. E.
Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436

SWETTE, L. L.
Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138

SWINGLE, R. L.
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086

SWIRSKY, B. D.
Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059

SWORDS, B. B.
Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377

SYDNOR, R. L.
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

SYDNOR, RICHARD L.
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

SYVERTSON, C. A.
Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N91-27957

SYVERTSON, C. A.
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087

SYVERTSON, ZOLTAN F.
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528

SYVERTSON, ZOLTAN F.
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885

SZOFRAN, FRANK R.
Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896

SZUWALSKI, B.
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839

T

TABACK, I.
Small conductive particle sensor
[NASA-CASE-LAR-12552-1] c 35 N82-11431

TADDEO, F. V.
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960

TALBOT, M. W.
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146

TALBOT, M. W.
Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950

TALLEY, D. H.
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134

TANZER, HERBERT J.
Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586

TARPLEY, J. L.
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489

TASHBAR, P. W.
System for depositing thin films
[NASA-CASE-MFS-20775-1] c 31 N75-12161

TAUB, W. M.
Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373

TAUB, W. M.
Space vehicle system
[NASA-CASE-MSC-12561-1] c 18 N76-17185

TAUSWORTHE, R. C.
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171

TAUSWORTHE, R. C.
Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210

TAWEL, RAOUL
Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385

TAYLOR, A. H.
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285

TAYLOR, A. H.
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310

TAYLOR, ALLAN H.
Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976

TAYLOR, ALLAN H.
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742

TAYLOR, ALLAN H.
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981

TAYLOR, ALLAN H.
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741

TAYLOR, ALLAN H.
Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042

TAYLOR, C. J.
High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574

TAYLOR, GERALD
Portable dynamic fundus instrument
[NASA-CASE-MSC-21675-1] c 52 N91-13865

TAYLOR, J. R.
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

TAYLOR, L. L.
Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210

TAYLOR, L. T.
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206

TAYLOR, L. T.
Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396

TAYLOR, L. V.
Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08799] c 10 N71-27272

TAYLOR, M. S.
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213

TAYLOR, R. A.
Digital computing cardiometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778

TAYLOR, R. C.
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421

TAYLOR, R. E.
Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543

TAYLOR, R. E.
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864

TAYLOR, R. E.
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595

TAYLOR, R. E.
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067

TAYLOR, R. E.
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546

TAYLOR, T. I.
Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750

TCHERNEV, D. I.
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-NXP-09830] c 14 N71-26266

TE POEL, H. E.
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300

TEGNELIA, C. R.
Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887

TEITELBAUM, S.
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282

TELFER, T. A.
Method of determining bond quality of power transistors attached to substrates
[NASA-CASE-MFS-21931-1] c 37 N75-26372

TEMPLE, H. E.
Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244

TEMPLE, H. E.
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389

TENER, W. M.
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393

TENG, R. N.
Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152

TENNEY, J. B., JR.
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

TENOSO, H. J.
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693

TEPPER, E. H.
Regenerable device for scrubbing breathable air of CO2 and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722

TERP, L. S.
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428

TERRAY, A.
Method of making an apertured casting
[NASA-CASE-LEW-11169-1] c 37 N76-23570

TERRELL, KYLE
Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733

TERSELIC, R. A.
Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932

TERVET, F. W.
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950

- TESINSKY, J. S.**
Flexible pile thermal barrier insulator
[NASA-CASE-MSC-19568-1] c 34 N78-25350
- TETSUKA, G. M.**
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
- THAKOOR, A. P.**
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- THAKOOR, ANILKUMAR**
Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
- THAKOOR, ANILKUMAR P.**
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
- THAKOOR, SARITA**
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
- THALER, S.**
Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
- THALLER, L. H.**
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
- THATCHER, C. S.**
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
- THEAKSTON, H. A.**
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
- THEISS, M.**
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
- THIBODAUX, J. G., JR.**
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143
- THIEL, A. M.**
Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
- THIELE, C.**
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
- THIELE, C. L.**
Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
- THOLE, J. M.**
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
- THOM, K.**
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920
- THOMAS, CLARK S.**
Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N91-15368
- THOMAS, D. F., JR.**
Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085
Kinesthetic control simulator
[NASA-CASE-LAR-10276-1] c 09 N75-15662
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
- THOMAS, H. N.**
Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
- THOMAS, N. E.**
Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
- THOMAS, N. L.**
Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
- THOMAS, R. D.**
Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
Thermocouple tape
[NASA-CASE-LEW-11072-2] c 35 N76-15434
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
- THOMAS, R. R.**
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
Rapid, quantitative determination of bacteria in water
[NASA-CASE-GSC-12158-1] c 51 N83-27569
- THOMASON, H. E.**
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
- THOMPSON, G. D., JR.**
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415
- THOMPSON, J. R., JR.**
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
- THOMPSON, R. B.**
Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
- THOMPSON, R. E.**
On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
- THOMPSON, S. W.**
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
- THOMPSON, W. W.**
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228
- THOMSON, A. R.**
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
- THOMSON, J. A. L.**
Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
- THORNHILL, J. W.**
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
- THORNTON, G. E.**
Hole cutter
[NASA-CASE-MFS-22649-1] c 37 N75-25186
- THORNTON, W. E.**
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
- THORNTON, WILLIAM E.**
Treadmill for space flight
[NASA-CASE-MSC-21752-1] c 54 N92-17910
- THORNTON, WILLIAM E., JR.**
Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723
Method for waste collection and storage
[NASA-CASE-MSC-21025-2] c 54 N91-14724
Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747
- THORNWALL, J. C.**
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
- THORPE, R. S.**
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
- THRASHER, JOSEPH S.**
A process for preparing 1,3-diamino-5-pentafluorosulfanybenzene and polymers therefrom
[NASA-CASE-LAR-14773-1-CU] c 27 N92-10105
- THYS, P. C.**
Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
- TIBBITTS, W. C.**
Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
- TICKNER, E. G.**
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
- TIEFERMANN, M. W.**
Optical torque meter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
- TILLER, N. G.**
Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288
- TILLER, NEWTON G.**
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
- TIMM, J. D.**
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
- TIMOR, U.**
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
- TINLING, B. E.**
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
- TISCHLER, R. F.**
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
- TISDALE, H. F., SR.**
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
- TITLE, A. M.**
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
- TITUS, L. E.**
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
- TOBIAS, R. A.**
Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260
- TOCK, R. W.**
Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
- TODD, H. H.**
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
- TOFT, A. R.**
Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
- TOLL, T. A.**
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
- TOLSON, B. A.**
Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
- TOM, H. Y.**
Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
- TOMBRELLO, T. A.**
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
- TOMLINSON, H. M.**
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
- TOMLINSON, L. E.**
Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
- TONGIER, M., JR.**
Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
- TOOLE, P. C.**
High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197

High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176

Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371

Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

TOOLE, PIERCE C.
Multi-adjustable headband
[NASA-CASE-KSC-11322-1] c 54 N89-29953

TOOTS, J.
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348

TOPITS, A., JR.
High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625

Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917

TORBETT, M. A.
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572

TORNEY, F. L., JR.
Ultrahigh vacuum gauge having two collector electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324

TOTH, L. R.
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504

TOWNES, C. H.
Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291

Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135

Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183

Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695

TOWNSEND, M. R.
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001

TOY, M. S.
New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251

Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252

Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107

Polymers of perfluorobutadiene and method of manufacture
[NASA-CASE-NPO-10863-2] c 06 N72-25152

Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228

Vitra-violet process for producing flame resistant polyamides and products produced thereby
[NASA-CASE-MSC-16074-1] c 27 N80-26446

TRADER, A. G.
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474

Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147

TRAJMAR, SANDOR
Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732

TRAN, SANG Q.
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168

TRAVIS, E. W.
Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064

TRELEASE, R. B.
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975

TRENT, R. C.
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820

TRENT, R. L.
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173

TRI, TERRY O.
Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889

TRIMARCHI, PAUL A.
Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732

TRIMBLE, D. W.
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345

TRIMPI, R. L.
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484

TRINH, E. H.
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993

Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515

Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

TRINH, EUGENE H.
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422

Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215

TRINH, TINH T.
Horizontally rotated cell culture system with a coaxial tubular oxygenator
[NASA-CASE-MSC-21294-1] c 51 N91-30667

TRIOLO, J. J.
Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039

TRIPP, C. N.
Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155

TRISCHLER, F. D.
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099

Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100

Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101

Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102

Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103

Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191

TROEGER, R. E.
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

TROMBKA, J. I.
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

TROST, R. F.
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506

TROUT, O. F., JR.
Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897

TROWBRIDGE, D. L.
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410

Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319

TRUBERT, M. R.
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176

TRUONG, TRIEU-KIE
Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946

VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061

VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525

VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N90-27040

TRUSCH, R. B.
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

TRUSSELL, D. H.
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312

TSCHIRCH, R. P.
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-1] c 27 N82-16238

Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324

Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484

TSCHUNKO, H. F. A.
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868

Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635

Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673

TSUDA, G. I.
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863

TSUO, Y. H.
Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841

TSUTSUMI, K.
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658

TUBBS, E. F.
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

TUBBS, H. E.
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983

TUCKER, C. E.
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

TUCKER, DENNIS S.
Production of mullite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870

TUCKER, E. M.
Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927

Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439

Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728

TUGGLE, R. H., JR.
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108

TULEY, E. N.
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

TULLOS, GORDON L.
Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N91-27220

TUMULTY, W. T., JR.
Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477

TUNG, Y.
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102

TURK, R. R.
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137

TURLY, A. P.
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403

TURNAGE, J. E.
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

TURNER, G. B.
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551

TURNER, J. W.
Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386

TURNER, JAMES ERIC
O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N91-21175

TURNER, R. C.
Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039

TURNER, R. E.
Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726

Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460

TURNER, T. M.
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282

TURNER, T. R.
Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016

TUTHILL, WALLACE C.
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241

TUTHILL, WALLACE C., JR.
Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305

- TUTTLE, S. A.**
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
- TVEITAN, W.**
Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928
- TWARD, E.**
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
- TYAGI, R. C.**
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
- TYCZ, M.**
Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913
- TYLER, A. L.**
Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
- TYREE, V. C.**
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
- U**
- UBER, P. W.**
Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
- ULRICH, B. R.**
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
- ULRICH, D. R.**
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
- ULRICH, G. W.**
Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
- UNDERWOOD, J. H.**
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
Multilayer focusing collimator
[NASA-CASE-MFS-20932-1] c 35 N75-19616
- UNNAM, JALAJAH**
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- UPCHURCH, BILLY T.**
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270
- UPDIKE, O. L.**
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
- UPTON, D. T.**
Scanner
[NASA-CASE-GSC-12032-2] c 43 N82-13465
- URBAN, E. W.**
Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133
- URSEY, B. C.**
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
- V**
- VADAKAN, V. V.**
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
- VAICAITIS, RIMAS**
Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652
- VAIRO, DANIEL M.**
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139
- VALENTIJN, H. P.**
Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
- Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
- VALINSKY, J. P.**
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
- VALLOTTON, W. C.**
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
- VANALSTINE, JAMES M.**
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
- VANALSTYNE, E. M.**
Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
- VANARK, WILLIAM B.**
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
- VANARNAM, D. E.**
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
- VANATTA, L. C.**
Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
- VANAUKEN, R.**
Reinforced polyquinoxaline gasket and method of preparing the same
[NASA-CASE-MFS-21364-1] c 37 N74-18126
- VANBUSKIRK, PAUL D.**
Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-21493
- VANDERHOFF, J. W.**
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
- VANDERJET, E. K.**
Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
- VANDERSANDE, JAN W.**
Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
- VANGO, S. P.**
Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
- VANNORMAN, JOHN D.**
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270
- VANNUCCI, R. D.**
Curing agent for polyepoxides and epoxy resins and composites cured therewith
[NASA-CASE-LEW-13226-1] c 27 N81-17260
- VANNUCCI, RAYMOND D.**
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566
Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230
- VANO, A. E.**
Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994
- VANORNUM, D. G.**
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
- VANSCHOIACK, M. M. E.**
High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
- VANTUYLRSCH, W.**
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
- VANZYL, JAKOB J.**
Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541
Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594
- VARGO, D. J.**
Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
- VARMA, I. K.**
Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
- Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
- VARS, G.**
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
- VARY, A.**
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
- VASILAKOS, N.**
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
- VASQUEZ, PETER**
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
- VASQUEZ, RICHARD P.**
Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N92-10681
- VAUGHAN, ARTHUR H.**
Wide field strip-imaging optical system
[NASA-CASE-NPO-18146-1-CU] c 74 N92-17892
- VAUGHAN, G. R.**
Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
- VAUGHAN, O. H.**
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
- VAUGHAN, R. L.**
Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
- VAUGHAN, R. W.**
Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
- VAUSE, R.**
Acoustically swept rotor
[NASA-CASE-ARC-11106-1] c 05 N80-14107
- VEHRENCAMP, J. E.**
Electromagnetic radiation energy arrangement
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- VEIKINS, O.**
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
- VEILLETTE, L. J.**
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
- VELLEND, H.**
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
- VENEMA, STEVEN C.**
Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126
- VENKATARAMAN, SUBRAMANIAN T.**
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036

VENKATESH, CHIKKABELARANGALA N.

Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371

VERMILLION, C. H.

Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081

VERMILLION, C. M.

Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491

VERNIKOS, J.

Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613

VESSOT, R. F. C.

Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313

VICK, A. R.

Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366

VICK, H. A.

Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317

VICKERS, E. C.

Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

VICKERS, J. M.

Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163

VICKERS, J. M. F.

Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906

VIHMAN, W.

Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900

VIKINSALO, S. J.

Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678

VIJEN, PAUL M. H. W.

Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587

VILLARREAL, S.

Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952

VILNOTTER, VICTOR A.

Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

VINAL, A. W.

Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135

VINCENT, J. S.

Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560

VINCENT, LAURENCE J.

Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672

VINE, J.

Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905

VIVIAN, H. C.

Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089

VIVIAN, H. C.

Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806

VLASSE, MARCUS

Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545

VODICKA, V. W.

Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210

VOECKS, GERALD E.

Regenerative Cu/La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073

VOELLMER, GEORGE M.

Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-31656

VOGELEY, A. W.

Cable arrangement for rigid tethering Patent
[NASA-CASE-XLA-02332] c 32 N71-17609
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268

VOGL, O.

Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

VOLK, G. G.

Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

VOLKOFF, J. J.

Electro-optical scanning apparatus Patent Application
[NASA-CASE-NPO-11106] c 14 N70-34697

VOLPE, F. A.

Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Star scanner
[NASA-CASE-GSC-11569-1] c 89 N74-30886

VONBUN, FRIEDRICH O.

Nano-G research laboratory for a spacecraft
[NASA-CASE-GSC-13197-1] c 18 N91-27201

VONPRAGNAU, G. L.

Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604

VONPRAGNAU, G. L.

Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420

VONPRAGNAU, GEORGE L.

Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155

VONROOS, O. H.

Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541

VONROOS, OLDWIG

Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894

VONTIESENHAUSEN, G. F.

Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352

VORHABEN, K. H.

System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

VORKINK, H. G.

Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266

VORREITER, J. W.

Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393

VOSS, FRED E.

Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999

VRANAS, T.

Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470

VRANISH, JOHN M.

Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N91-17401
Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N91-28579

Spline-locking payload fastener
[NASA-CASE-GSC-13378-1] c 37 N91-28581
Driven shielding capacitive proximity sensor
[NASA-CASE-GSC-13377-1] c 63 N91-28785
Magnetostrictive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N92-15331
Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N92-21728

VUKELICH, E. K.

Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

VYKUKAL, H. C.

Universal pilot restraint suit and body support therefor Patent
[NASA-CASE-XAC-00405] c 05 N70-41819
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Space suit having improved waist and torso movement
[NASA-CASE-ARC-10275-1] c 05 N72-22092
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507
VYKUKAL, HUBERT C.
Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344

W**WADE, O. W.**

Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400

WADE, WILLIAM R.

Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N89-14374

WAGES, C. G.

Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130

WAGNER, A. P.

Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090

WAGNER, C. A.

Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813

Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417

WAGNER, H. R.

Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202

WAGNER, W. B.

Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577

WAKELYN, N. T.

Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047

- WALD, D.**
Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
- WALKER, D. J.**
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
- WALKER, H. J.**
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
- WALKER, H. M.**
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
- WALKER, W. L.**
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
- WALL, R. J.**
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
- WALL, W. A.**
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
- WALL, W. A., JR.**
Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Automatic welding speed controller Patent
[NASA-CASE-XMF-01730] c 15 N71-23050
Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
- WALLACE, C. J.**
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
- WALLACE, CHARLES C.**
Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959
- WALLACE, E. D.**
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134
- WALLACE, G. R.**
Pseudo-noise test set for communication system evaluation
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
- WALLINGFORD, W. M.**
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
- WALLIO, M. A.**
Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
- WALLIS, D. E.**
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
- WALLSOM, E.**
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
- WALLSOM, R. E.**
Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
- WALLSOM, RICHARD E.**
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614
- WALSH, J. M.**
Specific wavelength colorimeter
[NASA-CASE-MSC-14081-1] c 35 N74-27860
- WALSH, J. V.**
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
- WALSH, MICHAEL J.**
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
- WALSH, T. C.**
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
- WALSH, T. J.**
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
- WALSH, T. M.**
Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
- WALTER, H. U.**
Method of crystallization
[NASA-CASE-MFS-23001-1] c 76 N77-32919
- WALTER, RICHARD T.**
Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-21493
- WALTERS, R. M.**
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
- WALTON, T. S.**
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
- WANG, CHARLES C.**
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
- WANG, D. S.**
Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
- WANG, G. Y.**
A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836
- WANG, IUI**
Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N92-17860
- WANG, LIANG-GUO**
Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N91-23889
- WANG, LUI**
System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944
- WANG, T.**
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
- WANG, T. G.**
Material suspension within an acoustically excited resonant chamber
[NASA-CASE-NPO-13263-1] c 12 N75-24774
Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c 71 N78-10837
Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
Method and apparatus for producing concentric hollow spheres
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Method and apparatus for producing gas-filled hollow spheres
[NASA-CASE-NPO-14596-3] c 31 N83-31896
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
- WANG, TAYLOR G.**
Method and apparatus for producing microshells
[NASA-CASE-NPO-16635-1-CU] c 31 N91-32240
- WANG, W. S.**
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
- WANGER, R. P.**
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
- WARD, D. R.**
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
- WARD, J. F.**
Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018
- WARD, J. O.**
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373
- WARD, RICHARD S.**
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
- WARD, W. D.**
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
- WARKENTINE, D. K.**
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
- WARNECK, P.**
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
- WARREN, A. D.**
Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
- WARREN, A. P.**
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675
Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222
- WARREN, E. L.**
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
- WATERS, W. J.**
Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026
Nickel base alloy
[NASA-CASE-LEW-10874-1] c 17 N72-22535
Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465
Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c 37 N74-13179
Nickel base alloy
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
- WATSON, J. D.**
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472
- WATSON, J. E.**
High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925
- WATSON, N. D.**
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
- WATSON, V. R.**
Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
- WATTS, D. J.**
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
- WAYLAND, H. J.**
Servo-controlled intravitral microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
- WEAR, J. D.**
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
- WEATHERS, G. D.**
Pseudo-noise test set for communication system evaluation
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
- WEAVER, L. B.**
Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112
- WEAVER, W. R.**
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
- WEBB, D. D.**
Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
- WEBB, D. L.**
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865

- Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235
- WEBB, J. A., JR.**
Circuit for detecting initial systole and diastolic notch
[NASA-CASE-LEW-11581-1] c 54 N75-13531
- WEBB, J. B.**
Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
- WEBB, WINSTON S.**
Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729
- WEBBON, B. W.**
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
- WEBBON, BRUCE**
Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286
- WEBER, G. E.**
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
- WEBER, G. J.**
Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393
- WEBER, L.**
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions
[NASA-CASE-NPO-12122-1] c 24 N76-14203
- WEBER, R. J.**
Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
- WEBER, WILLIAM F.**
Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-21493
- WEBSTER, C. R.**
Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 35 N86-25753
- WEBSTER, CHARLES NEAL**
Method of controlling a resin curing process
[NASA-CASE-MSC-21169-1] c 27 N89-29539
- WEBSTER, CHRISTOPHER R.**
Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006
- WEBSTER, J. A.**
Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphthalic anhydrides)
[NASA-CASE-MFS-22356-1] c 23 N75-30256
Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268
- WEBSTER, L. D.**
Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
- WEDDENDORF, BRUCE**
Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542
Automatic locking orthotic knee device
[NASA-CASE-MFS-28633-1] c 54 N92-17866
- WEEKS, JACK L.**
Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N91-25335
- WEETON, J. W.**
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539
- Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-1] c 24 N81-17170
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
- WEIDENHAMER, J. H.**
Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
- WEIDMAN, D. J.**
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
- WEIDNER, J. P.**
Orbiter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161
- WEIGAND, A. J.**
Texturing polymer surfaces by transfer casting
[NASA-CASE-LEW-13120-1] c 27 N82-28440
- WEINBERG, I.**
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
- WEINBERG, IRVING**
Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614
- WEINGART, J. M.**
Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
- WEINSTEIN, L.**
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
- WEINSTEIN, L. M.**
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
- WEINSTEIN, LEONARD M.**
Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149
Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N91-28135
Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008
- WEINSTEIN, M.**
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037
- WEISLOGEL, MARK W.**
Pulse thermal energy transport system
[NASA-CASE-LEW-15235-1] c 34 N92-10167
- WEISS, P. F.**
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
- WEISS, S.**
Pretreatment method for anti-wetttable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
- WEITZEL, D. F.**
Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929
- WEITZEL, D. H.**
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
- WELCH, CHRISTOPHER**
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962
- WELCH, CHRISTOPHER S.**
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N92-21710
- WELCH, W. A.**
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
- WELLING, C. E.**
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
- WELLMAN, J. B.**
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
- WELLS, A. F.**
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
- WELLS, B. R.**
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
- WELLS, DENNIS L.**
Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684
Nozzle fabrication technique
[NASA-CASE-MSC-21299-2] c 37 N91-32508
- WELLS, F. E.**
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
- WELLS, GEORGE H., JR.**
Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863
- WELLS, I. D.**
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- WELLS, W. H.**
Rotable accurate reflector system for telescopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229
- WELLS, W. L.**
Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
- WEN, LIANG-CHI**
Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
- WENDT, A. J.**
Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
- WENZEL, G. E.**
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
- WERNER, E. A.**
Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
- WESSELSKI, C. J.**
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
- WESSELSKI, CLARENCE J.**
Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958
Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180
Preloaded brake disc
[NASA-CASE-MSC-21132-1] c 37 N88-29181
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-2] c 18 N89-28554
Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492
Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N91-23493
- WEST, PHILIP R.**
Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
- WEST, R. L.**
Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133
- WEST, R. W., JR.**
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
- WEST, THOMAS W.**
Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795
- WESTBROOK, R. M.**
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
- WESTER, G. W.**
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
- WESTFALL, L. J.**
Arc spray fabrication of metal matrix composite monotape
[NASA-CASE-LEW-13828-1] c 24 N85-30027

- WESTFALL, LEONARD J.**
Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
- WESTON, K. C.**
Heat shield Patent
[NASA-CASE-XMS-00486] c 33 N70-33344
- WESTPHAL, J. A.**
Method and apparatus for aligning a laser beam projector
Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
- WETMORE, J. W.**
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
- WETZLER, D. G.**
Thrust-isolating mounting
[NASA-CASE-MFS-21680-1] c 18 N74-27397
- WEYLER, G. M., JR.**
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
Method of manufacture of bonded fiber flywheel
[NASA-CASE-MFS-23674-1] c 24 N81-29163
- WEZNER, F. S.**
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
- WHEATLEY, D. G.**
Hermetic sealed vibration damper Patent
[NASA-CASE-MS-10959] c 15 N71-26243
- WHEELER, D. R.**
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
- WHEELER, R. K.**
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
- WHEELER, S.**
Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
- WHEELER, S. B.**
Fluid containers and resealable septum therefor
Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
- WHIFFEN, E. L.**
Grain refinement control in TIG arc welding
[NASA-CASE-MS-19095-1] c 37 N75-19683
- WHIPPLE, D. W.**
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
- WHIPPLE, E. C., JR.**
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
- WHIPPLE, R. D.**
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
- WHIPPLE, RAYMOND D.**
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139
- WHISENANT, J. T.**
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
- WHITACRE, H. E.**
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Scientific experiment flexible mount
[NASA-CASE-MS-12372-1] c 31 N72-25842
- WHITAKER, ANN F.**
Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717
- WHITAKER, WILLIE D.**
Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MS-21211-1] c 18 N89-28553
- WHITCOMB, R. T.**
Airfoil shape for flight at subsonic speeds
[NASA-CASE-LAR-10585-1] c 02 N76-22154
- WHITE, A. R.**
Scientific experiment flexible mount
[NASA-CASE-MS-12372-1] c 31 N72-25842
- WHITE, E. C.**
Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018
Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
Lightweight, variable solidity knitted parachute fabric
[NASA-CASE-LAR-10776-1] c 02 N74-10034
- WHITE, E. RICHARD**
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828
- WHITE, F. A.**
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
- Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444
- WHITE, J. A.**
Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820
- WHITE, M. H.**
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
- WHITE, P. R.**
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
- WHITE, W. F.**
Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137
Resonant waveguide stark cell
[NASA-CASE-LAR-11352-1] c 33 N75-26245
- WHITE, W. L.**
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
- WHITE, W. T.**
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355
- WHITE, WILLIAM T.**
Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491
- WHITEHEAD, A. B.**
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
- WHITEHEAD, C. W.**
Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900
- WHITMORE, HENRY B.**
Method and apparatus for waste collection and storage
[NASA-CASE-MS-21025-3] c 54 N91-26747
- WHITFIELD, C. E.**
Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
- WHITMORE, F. C.**
Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361
- WHITMORE, HENRY**
Improved method and apparatus for waste collection and storage
[NASA-CASE-MS-21025-1] c 31 N87-25495
- WHITMORE, HENRY B.**
Valve for waste collection and storage
[NASA-CASE-MS-21025-4] c 54 N91-14723
Method for waste collection and storage
[NASA-CASE-MS-21025-2] c 54 N91-14724
- WHITT, W. D.**
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750
- WHITTEN, D. E.**
Dual stage check valve
[NASA-CASE-MS-13587-1] c 15 N73-30459
- WHITTENBERGER, J. D.**
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
- WHYTE, WAYNE A., JR.**
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128
- WIBERG, R. E.**
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
- WICHOREK, GREGORY R.**
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
- WIEBE, E. R.**
Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467
- Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Refrigerated coaxial coupling
[NASA-CASE-NPO-13504-1] c 33 N75-30430
Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284
Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
- WIECH, R. E.**
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226
- WIKER, G. A.**
Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992
- WIKER, GORDON A.**
Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863
- WILCOX, BRIAN**
Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169
Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N89-26400
- WILCOX, FLOYD J., JR.**
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N91-27156
- WILEM, R. T.**
Natural turbulence electrical power generator
[NASA-CASE-LAR-11551-1] c 44 N80-29834
- WILEY, F. L.**
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
- WILEY, P. H.**
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
- WILGUS, D. S.**
Adaptive voting computer system
[NASA-CASE-MS-13932-1] c 62 N74-14920
- WILHELM, H. E.**
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
- WILHITE, W. F.**
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
- WILKEY, J. W., JR.**
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
- WILKINS, J. R.**
Apparatus for microbiological sampling
[NASA-CASE-LAR-11069-1] c 35 N75-12272
Automatic inoculating apparatus
[NASA-CASE-LAR-11074-1] c 51 N75-13502
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
Measurement of gas production of microorganisms
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677
Electrochemical detection device
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
- WILL, H. A.**
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
- WILL, R. W.**
Attitude control and damping system for spacecraft
Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
- WILLEY, NORMAN F.**
Blind fastening apparatus
[NASA-CASE-LAR-14542-1] c 37 N92-11354
- WILLIAMS, B. A.**
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
- WILLIAMS, D. D.**
Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050

- WILLIAMS, D. N.**
Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
- WILLIAMS, E. F.**
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
- WILLIAMS, J. G.**
Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
- WILLIAMS, J. J.**
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
- WILLIAMS, J. R.**
Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476
- WILLIAMS, L. A.**
Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
- WILLIAMS, L. A., JR.**
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
- WILLIAMS, M. D.**
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307
- WILLIAMS, M. L.**
Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515
- WILLIAMS, R. M.**
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- WILLIAMS, ROGER M.**
Solid state electrical switch employing materials with reversible phase transistors
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
- WILLIAMS, S. R.**
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
- WILLIAMS, T. E.**
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
- WILLIAMS, W. F.**
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
- WILLIS, A. E.**
Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
- WILLIS, PAUL B.**
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
- WILLNER, K.**
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
- WILNER, B. M.**
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
- WILSON, A. H.**
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
- WILSON, D. J.**
Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
- WILSON, E. M.**
Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
- WILSON, I. J.**
Method of producing complex aluminum alloy parts of high temper. and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
- WILSON, J. C.**
Exhaust flow deflector
[NASA-CASE-LAR-11570-1] c 34 N76-18364
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- WILSON, JOHN C.**
Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809
- WILSON, L. R.**
Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292
- WILSON, M. E.**
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
- WILSON, M. L.**
Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
- WILSON, M. N., JR.**
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
- WILSON, MAYWOOD L.**
Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334
- WILSON, R. E.**
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
- WILSON, R. L.**
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
- WILSON, T. G.**
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
- WILSON, T. L.**
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
- WILSON, W. A.**
Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
- WILSON, W. O.**
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
- WIMBER, R. T.**
Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
- WINBLADE, R. L.**
Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
- WINFREE, WILLIAM P.**
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N92-21710
- WING, L. D.**
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Automatic thermal switch
[NASA-CASE-GSC-12553-1] c 34 N83-28356
- WINGFIELD, G. A.**
Resonant waveguide stark cell
[NASA-CASE-LAR-11352-1] c 33 N75-26245
- WINIARSKI, F. J.**
Wobble gear drive mechanism
[NASA-CASE-WOO-00625] c 37 N78-17385
- WINITZ, M.**
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270
- WINKELSTEIN, R. A.**
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
- WINKLER, C. E.**
Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
- WINKLER, H. E.**
Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
Bio-medical flow sensor
[NASA-CASE-MSC-18761-1] c 52 N83-27577
- WINKLER, ROGER V.**
Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-12171-1] c 34 N90-21999
- WINKLER, T.**
AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910
- WINN, L. E.**
Ellipsograph for pantograph Patent
[NASA-CASE-XLA-03102] c 14 N71-21079
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
- WINTUCKY, E. G.**
Ion sputter textured graphite
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
- WIRTH, M. N.**
Selective data segment monitoring system
[NASA-CASE-ARC-10899-1] c 60 N77-19760
- WISANDER, D. W.**
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
- WISE, R. C.**
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
- WISE, T. E.**
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
- WITHEROW, W. K.**
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
- WITHEROW, WILLIAM K.**
A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253
Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202
X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835
Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815
Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388
- WITTE, R. S.**
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
- WITTMANN, A. E.**
Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
- WITTROCK, E. P.**
Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460
- WITTRY, DAVID B.**
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
- WITZKE, W. R.**
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
- WOBIG, O. A.**
Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
- WOELLER, F. H.**
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
- WOELLER, FRITZ H.**
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
- WOJCIECHOWSKI, C. J.**
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
- WOJTASINSKI, R. J.**
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110

- Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
- Electric field measuring and display system
[NASA-CASE-KSC-10731-1] c 33 N74-27862
- Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
- Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
- WOLCZOK, J. M.**
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
- WOLF, C. B.**
Method of producing silicon
[NASA-CASE-NPO-14382-1] c 31 N80-18231
- WOLF, D. A.**
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
- WOLF, DAVID A.**
Three-dimensional coculture process
[NASA-CASE-MSC-21560-1] c 51 N90-18852
- Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N91-13860
- A culture vessel with large perfusion area to volume ratio
[NASA-CASE-MSC-21662-1] c 51 N91-17531
- Rotating bio-reactor cell culture apparatus
[NASA-CASE-MSC-21293-1] c 51 N91-21700
- Horizontally rotated cell culture system with a coaxial tubular oxygenator
[NASA-CASE-MSC-21294-1] c 51 N91-30667
- WOLF, F. T.**
Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17451
- WOLF, M. F.**
Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598
- WOLF, PETER**
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N91-23237
- Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066
- WOLFE, J. F.**
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
- WOLFF, J. R.**
High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
- WOLLER, J. A.**
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
- WOLOWICZ, C. H.**
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
- WOLTHUIS, R. A.**
Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225
- Apparatus and method for processing Korotkov sounds
[NASA-CASE-MSC-13999-1] c 52 N74-26626
- WOLVERTON, B. C.**
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
- WOLVERTON, BILLY C.**
Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662
- WONG, R. Y.**
Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
- Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
- Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
- Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c 07 N71-27341
- WONG, W. J.**
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
- WOOD, K. E.**
High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
- Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
- WOOD, R. T.**
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
- WOOD, A. D.**
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
- WOOD, C. E.**
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
- WOOD, CHARLES**
Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
- Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
- WOOD, G. E.**
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
- WOOD, G. M.**
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444
- WOOD, G. M., JR.**
Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
- WOOD, G. P.**
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
- WOOD, GEORGE M.**
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
- WOOD, J. W.**
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
- WOOD, K. E.**
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
- WOOD, L. L.**
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753
- Continuous plasma laser
[NASA-CASE-XNP-04167-3] c 36 N77-19416
- WOOD, P. C.**
Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162
- Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
- WOOD, R. A.**
Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
- WOOD, R. C.**
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
- WOOD, RICHARD M.**
Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884
- Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
- Almond test body
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
- Active control of pressure loads using passive porosity
[NASA-CASE-LAR-14594-1] c 34 N92-17888
- Passive control of pressure loads using porosity
[NASA-CASE-LAR-14547-1] c 34 N92-17909
- WOODARD, STANLEY E.**
Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116
- WOODBURY, R. C.**
Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
- Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
- Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
- WOODGATE, B. E.**
Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951
- WOODHOUSE, CHRISTOPHER E.**
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
- WOODIE, P. E.**
Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
- WOODS, G. J.**
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
- WOODS, G. M., JR.**
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421
- WOODS, J. M.**
Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988
- WOOLFSON, M. G.**
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
- Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
- Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
- WOOLLAM, J. A.**
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365
- Atomic hydrogen storage
[NASA-CASE-LEW-12081-2] c 28 N80-20402
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
- WORNOM, D. E.**
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
- WORTMAN, J. J.**
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
- Method of making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438
- Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
- WORTMAN, JIM J.**
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412
- WREN, PAUL E.**
Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530
- WRIGHT, D. B.**
Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122
- WRIGHT, D. E.**
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348
- WRIGHT, E. E., JR.**
System for sterilizing objects
[NASA-CASE-KSC-11085-1] c 54 N81-24724
- WRIGHT, JAY M.**
Quick application/release nut with engagement indicator
[NASA-CASE-MSC-21799-1] c 37 N92-11359
- WRIGHT, L. N.**
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- WRIGHT, LAWRENCE T.**
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
- WRIGHT, W. H.**
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
- Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
- WRINKLE, W. W.**
Apparatus for remote handling of materials
[NASA-CASE-LAR-10634-1] c 37 N74-18123
- WU**
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519
- WU, C.**
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
- Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
- Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
- Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

WU, JIIN-CHUAN

Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438

WU, MITCHELL B.

Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866

WU, V. C.

Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

WUENSCHER, H. F.

Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345
Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195

WUERKER, R. F.

Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Microbalance
[NASA-CASE-MSC-11242] c 35 N78-17358

WYBLE, C. W.

Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717

WYDEVEN, T.

Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

WYDEVEN, T. J.

Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10912-2] c 27 N79-18052
Reverse osmosis membrane of high urea rejection properties
[NASA-CASE-ARC-10980-1] c 27 N80-23452
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361

WYDEVEN, T. J., JR.

Method of preparing water purification membranes
[NASA-CASE-ARC-10643-1] c 25 N75-12087

WYDEVEN, THEODORE J., JR.

Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258

WYLIE, G. M.

Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051

WYMAN, C. L.

Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
System for the measurement of ultra-low stray light levels
[NASA-CASE-MFS-23513-1] c 74 N79-11865

WYNVEEN, R. A.

Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784

WYSOCKI, J. J.

Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513

Y

YAGER, S. P.

Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935

YAMAKAWA, K. A.

Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

YAMAKI, D. A.

Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124

YAMAUCHI, S. T.

Degassing and mixing apparatus for liquids
[NASA-CASE-MSC-18936-1] c 35 N83-29652

YANAGITA, H.

Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978

YANG, C. Y.

Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344

YANG, L. C.

Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
Underwater seismic source
[NASA-CASE-NPO-14255-1] c 46 N79-23555
Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Method and device for detection of a substance
[NASA-CASE-NPO-14940-1] c 33 N83-31954
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

YANG, LI-FARN

Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184
Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N91-28580

YANG, M. M.

Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

YANG, P. M.

Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465

YANG, ROBERT ALEXANDER

Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969

YARIV, A.

Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

YASUI, R. K.

Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474

YEAGER, P. R.

Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857

YEH, C.

Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553

YEH, HEN-GEUL

Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713

YEH, Y. C. M.

Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780

YEN, S. P. S.

Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244

YIN, L. I.

Low intensity X-ray and gamma-ray imaging device
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281

YOSHINO, S. Y.

Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489

YOST, V. H.

Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607

YOST, VAUGHN H.

X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835

YOST, W. T.

Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572

YOST, WILLIAM T.

Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653
Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160
Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170
Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914
Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182

YOUNANS, BRUCE R.

Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259

YOUNG, A. L.

Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615

YOUNG, D. L.

Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144

YOUNG, D. R.

Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771

YOUNG, H.

Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436

YOUNG, K. M.

High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147

YOUNG, L. R.

Display research collision warning system
[NASA-CASE-HON-10703] c 21 N73-13643
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358

YOUNG, LAWRENCE E.

System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621

YOUNG, R. N.

Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Independent power generator
[NASA-CASE-LAR-11208-1] c 44 N78-32539
Electrochemical detection device
[NASA-CASE-LAR-11922-1] c 25 N79-24073

YOUNG, S. G.

Method of protecting a surface with a silicon-slurry/aluminide coating
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Silicon-slurry/aluminide coating
[NASA-CASE-LEW-13343] c 26 N83-31795

YOUNG, W. J.

Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993

YOUNG, W. R.

Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296

YOUNGBERG, C. L.

Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

YOUNGLUTH, O., JR.

Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172

Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349

YOUNGHANS, J. L.

Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

YU, I. P.

Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604

Z**ZABOWER, H. R.**

Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361

ZAHLAVA, B. A.

Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395

ZAPLATYNSKY, I.

Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944

Method of preparing a thermal barrier coating
[NASA-CASE-LEW-14999-2] c 27 N91-26376

ZAPLATYNSKY, ISIDOR

Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N91-25875

Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N92-21725

ZAREMBA, J. G.

Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694

ZARETSKY, E. V.

Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052

ZAVADA, E. J.

Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850

ZAVESKY, RALPH J.

Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875

ZAVIANTSEFF, V.

Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464

ZEANAH, H. W.

Filtering device
[NASA-CASE-MFS-22729-1] c 32 N76-21366

ZEBKER, H. A.

Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

ZEBKER, HOWARD A.

Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

ZEBROWSKI, Z. E.

Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750

ZEBUS, P. P.

Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383

Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423

ZEIGER, R. J.

Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901

ZELLNER, G. J.

Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568

ZEMAN, J. R.

Lamp modulator
[NASA-CASE-KSC-10565] c 09 N72-25250

ZENTNER, RONALD C.

Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MSC-21434-1] c 37 N92-10197

ZERGER, R. S.

Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051

ZERLAUT, G. A.

Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772

Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532

ZERWEKH, P. S.

Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932

ZIEMKE, M. C.

Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051

ZIMMERMAN, B. G.

Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678

Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

Passive dual spin misalignment compensators
[NASA-CASE-GSC-11479-1] c 35 N74-28097

ZIMMERMAN, E. F.

Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019

ZIMMERMAN, J. E.

Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423

ZIMMERMAN, NORMAN B.

Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628

ZIMMERMAN, P. A.

Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467

ZIMMERMAN, R. L.

Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407

Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922

ZIOLKOWSKI, A. J.

Multi-lobar scan horizon sensor Patent
[NASA-CASE-XGS-00809] c 21 N70-35427

ZLATKIS, A.

Analysis of volatile organic compounds
[NASA-CASE-MSC-14428-1] c 23 N77-17161

ZMUDA, L. J.

Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385

ZMUIDZINAS, J. S.

Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826

ZOHAR, S.

Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175

ZOOK, H. A.

Meteoroid capture cell construction
[NASA-CASE-MSC-12423-1] c 91 N76-30131

ZORUMSKI, W. E.

Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259

Noise suppressor
[NASA-CASE-LAR-11141-1] c 07 N74-32418

ZOTTARELLI, L. J.

Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694

Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033

Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000

Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434

ZOUTENDYK, J. A.

Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269

ZOUTENDYK, JOHN A.

Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622

Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196

ZRUBEK, W. E.

System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885

ZUCCARO, J. J.

Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193

ZUCKERWAR, A. J.

Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614

Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232

Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867

High-temperature microphone system
[NASA-CASE-LAR-12375-1] c 32 N79-24203

Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783

Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933

ZUCKERWAR, ALLAN J.

Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407

Fiber optic microphone
[NASA-CASE-LAR-14402-1-CU] c 74 N91-15874

Vacuum-isolation vessel and method for measurement of thermal noise in microphones
[NASA-CASE-LAR-14567-1-CU] c 33 N92-12174

ZUPP, GEORGE A., JR.

Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N91-13483

Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N92-21999

ZURASKY, J. L.

Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751

ZWIENER, J. M.

Real time reflectometer
[NASA-CASE-MFS-23118-1] c 35 N77-31465

ZYGIELBAUM, A. I.

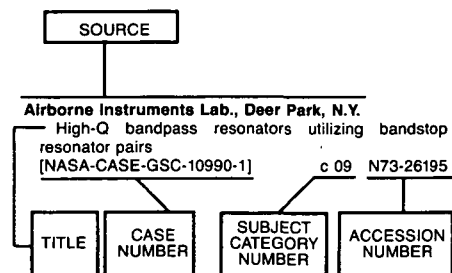
Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207

Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248

Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206

Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267

Typical Source Index Listing



Listings in this index are arranged alphabetically by source. The title of the document provides the user with a brief description of the subject matter. The case number is the prime access point to patent documents. The subject category number indicates the category in Section 1 (Abstracts) in which the citation is located. The accession number denotes the number by which the citation is identified within the subject category. The titles are arranged under each source in ascending accession number order.

A

Adjunct Systems, Inc., Huntsville, AL.
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768

Aeroflex Labs., Inc., Plainview, NY.
Rotary actuator
[NASA-CASE-NPO-10244] c 15 N72-26371

Aeroflex General Corp., El Monte, CA.
High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147

Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090

Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321

Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605

Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750

Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834

Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346

Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186

Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563

Aeroflex General Corp., Glendale, CA.
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294

Aeroflex General Corp., Sacramento, CA.
Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212

Aeronautical Research Associates of Princeton, Inc., NJ.
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930

Air Products and Chemicals, Inc., Philadelphia, PA.
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225

Airborne Instruments Lab., Deer Park, NY.
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195

AirResearch Mfg. Co., Torrance, CA.
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345

Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

Airtronics, Inc., Washington, DC.
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146

Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950

American Air Filter Co., Inc., Saint Louis, MO.
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457

American Optical Co., Pittsburgh, PA.
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699

American Optical Co., Southbridge, MA.
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321

American Science and Engineering, Inc., Cambridge, MA.
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240

Ampex Corp., Redwood City, CA.
Method for making conductors for ferrite memory arrays
[NASA-CASE-LAR-10994-1] c 24 N75-13032

Anocut Engineering Co., Chicago, IL.
Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395

Applied Magnetics Corp., Goleta, CA.
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210

Applied Space Products, Inc., Palo Alto, CA.
Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469

Army Air Mobility Research and Development Lab., Hampton, VA.
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

Army Aviation Research and Development Command, Moffett Field, CA.
Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496

ARO, Inc., Arnold Air Force Station, TN.
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978

Astro Research Corp., Carpinteria, CA.
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259

Astro-Space Labs., Inc., Huntsville, AL.
Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752

Athens Coll., AL.
Apparatus and method for heating a material in a transparent ampoule
[NASA-CASE-MFS-25436-1] c 27 N83-36220

Atlantic Research Corp., Alexandria, VA.
Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381

Auburn Research Foundation, Inc., AL.
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

Auburn Univ., AL.
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790

Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429

Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351

Autonetics, Anaheim, CA.
Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920

Avco Corp., Cincinnati, OH.
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358

Avco Corp., New York, NY.
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334

Avco Corp., Wilmington, MA.
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834

B

Baldwin Electronics, Inc., Little Rock, AR.
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946

Baldwin-Lima-Hamilton Corp., San Francisco, CA.
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409

Ball Bros. Research Corp., Boulder, CO.
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864

Star scanner
[NASA-CASE-GSC-11569-1] c 89 N74-30886

Barnes Engineering Co., Stamford, CT.
Multi-lobar scan horizon sensor Patent
[NASA-CASE-XGS-00809] c 21 N70-35427

Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088

Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408

Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449

Battelle Columbus Labs., OH.
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560

Battelle Memorial Inst., Columbus, OH.
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230

Process for preparation of high-molecular-weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807

Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095

Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108

Method of making porous conductive supports for electrodes
[NASA-CASE-GSC-11367-1] c 44 N74-19692

Battelle Memorial Inst., Richland, WA.
Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743

Battelle Northwest Labs., Richland, WA.
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093

Bausch and Lomb, Inc., Rochester, NY.
Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027

Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292

Baylor Univ., Houston, TX.
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729

C

Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103

Beckman Instruments, Inc., Anaheim, CA.
Pressure modulating valve
[NASA-CASE-MSC-14905-1] c 37 N77-28487

Beckman Instruments, Inc., Fullerton, CA.
Pulse activated polarographic hydrogen detector
Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
Electronic divider and multiplier using photocells
Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same
Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Gas operated actuator
[NASA-CASE-NPO-11340] c 15 N72-33477
Specific wavelength colorimeter
[NASA-CASE-MSC-14081-1] c 35 N74-27860

Beckman Instruments, Inc., Pasadena, CA.
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469

Becton, Dickinson and Co., Rutherford, NJ.
Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395

Beech Aircraft Corp., Boulder, CO.
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126

Bell Aerospace Co., Buffalo, NY.
Modulator for tone and binary signals
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Correlation type phase detector
[NASA-CASE-GSC-11744-1] c 33 N75-26243

Bell Aerosystems Co., Buffalo, NY.
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595

Bell and Howell Co., Chicago, IL.
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Process for producing a well-adhered durable optical coating on an optical plastic substrate
[NASA-CASE-ARC-11039-1] c 74 N78-32854

Bellcomm, Inc., Washington, DC.
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706

Bendix Corp., Ann Arbor, MI.
Circuit breaker utilizing magnetic latching relays
Patent
[NASA-CASE-MSC-11277] c 09 N71-29008

Bendix Corp., Columbia, MD.
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416

Bendix Corp., Davenport, IA.
Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459

Bendix Corp., Detroit, MI.
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611

Bendix Corp., Huntsville, AL.
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421

Bendix Corp., Kennedy Space Center, FL.
Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015

Bendix Corp., Teterboro, NJ.
Evacuation valve
[NASA-CASE-LAR-10061-1] c 15 N72-31483

Bendix Research Labs., Southfield, MI.
Image tube
[NASA-CASE-GSC-11602-1] c 33 N74-21850

Bionetics Corp., Hampton, VA.
Small conductive particle sensor
[NASA-CASE-LAR-12552-1] c 35 N82-11431

Boeing Aerospace Co., Houston, TX.
Fluid sample collection and distribution system
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067

Boeing Aerospace Co., Seattle, WA.
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389

Boeing Co., Cocoa Beach, FL.
Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497

Variable resistance constant tension and lubrication device
[NASA-CASE-KSC-10723-1] c 37 N75-13265

Boeing Co., Houston, TX.
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714

Boeing Co., Huntsville, AL.
Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
Borescope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

Boeing Co., Pasadena, TX.
Medical subject monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

Boeing Co., Seattle, WA.
Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487
Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135
Plasma cleaning device
[NASA-CASE-MFS-22906-1] c 75 N78-27913
Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392

Boeing Commercial Airplane Co., Seattle, WA.
Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551

Borden, Inc., New York, NY.
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

Borg-Warner Corp., Chicago, IL.
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255

Brown and Root-Northrop, Houston, TX.
Anti-fog composition
[NASA-CASE-MSC-13530-2] c 23 N75-14834

Brown Engineering Co., Inc., Huntsville, AL.
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708

California Computer Products, Inc., Anaheim.
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958

California Inst. of Tech., Pasadena.
Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Interferometer
[NASA-CASE-NPO-14448-1] c 74 N81-29963
Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
Electronic system for high power load control
[NASA-CASE-NPO-15358-1] c 33 N83-27126
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Radiative cooler
[NASA-CASE-NPO-15465-1] c 34 N84-22903
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
Programmable scan/read circuitry for charge coupled device imaging detectors
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516

California Univ., Berkeley.
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Resistive anode image converter
[NASA-CASE-NPO-10876-1] c 33 N76-27473
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
Microelectrophoretic apparatus and process
[NASA-CASE-HQN-11121-1] c 25 N79-14169

California Univ., Los Angeles.
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753
Continuous plasma laser
[NASA-CASE-XNP-04167-3] c 36 N77-19416

Catholic Univ. of America, Washington, DC.
Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109

Chance Vought Corp., Dallas, TX.
Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874

Christopher Newport Coll., Newport News, VA.
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

Chrysler Corp., Detroit, MI.
Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051

Chrysler Corp., Huntsville, AL.
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502

Collins Radio Co., Cedar Rapids, IA.
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467

Collins Radio Co., Dallas, TX.
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430

Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
Colorado State Univ., Fort Collins.
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Comprehensive Designers, Inc., Sherman Oaks, CA.
Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238
Computer Control Co., Inc., Framingham, MA.
Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Computer Sciences Corp., Falls Church, VA.
Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667
Computer Sciences Corp., Greenbelt, MD.
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
Computer Sciences Corp., Mountain View, CA.
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
Conrac Corp., Pasadena, CA.
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348
Consolidated Controls Corp., El Segundo, CA.
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
Cornell Univ., Ithaca, NY.
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
Crane Co., Burbank, CA.
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
Curtiss-Wright Corp., Wood-Ridge, NJ.
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Cutler-Hammer, Inc., Melville, NY.
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

D

Delaware Univ., Newark.
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Denver Univ., CO.
Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460
Department of Transportation, Cambridge, MA.
Optical noise suppression device and method
[NASA-CASE-MSC-12640-1] c 74 N76-31998
Dorne and Margolin, Inc., Bohemia, NY.
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Douglas Aircraft Co., Inc., Santa Monica, CA.
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152
Duke Univ., Durham, NC.
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
Dumont Electron Tubes, Clifton, NJ.
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
Dynatherm Corp., Cockeysville, MD.
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307

E

Echo Science Corp., Mountain View, CA.
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Eitel-McCullough, Inc., San Carlos, CA.
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
Electrac, Inc., Anaheim, CA.
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
Electric Storage Battery Co., Raleigh, NC.
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
Storage battery comprising negative plates of a wedge shaped configuration
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Electric Storage Battery Co., Yardley, PA.
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
Electro-Optical Systems, Inc., Pasadena, CA.
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483
Electronic Image Systems Corp., Cambridge, MA.
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489
Eloret Corp., Palo Alto, CA.
Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236
Essex Corp., Huntsville, AL.
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
Ewen Knight Corp., East Natick, MA.
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

F

Fairchild Hiller Corp., Germantown, MD.
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
Fairchild Republic Co., Farmingdale, NY.
Surface conforming thermal/pressure seal
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Faraday Labs., Inc., La Jolla, CA.
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Federal-Mogul Corp., Los Alamitos, CA.
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Florida Univ., Gainesville.
Safety flywheel
[NASA-CASE-HQN-10888-1] c 44 N79-14527
FMC Corp., New York, NY.
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
Foothill Coll., Los Altos Hills, CA.
Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
Ford Motor Co., Dearborn, MI.
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

G

Garrett Corp., Los Angeles, CA.
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
Garrett Corp., Torrance, CA.
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
GCA Corp., Bedford, MA.
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
General Dynamics/Astronautics, San Diego, CA.
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
General Dynamics/Convair, San Diego, CA.
Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463
General Dynamics Corp., San Diego, CA.
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
General Electric Co., Cincinnati, OH.
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101

H

Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403

Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097

Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871

Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039

Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115

Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

Thrust reverser for a long duct fan engine
[NASA-CASE-LEW-13199-1] c 07 N82-26293

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410

Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

General Electric Co., Cleveland, OH.
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

General Electric Co., Philadelphia, PA.
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922

Didymium hydrate additive to nickel hydroxide electrodes
Patent
[NASA-CASE-XGS-03505] c 03 N71-10608

Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers
[NASA-CASE-XGS-02011] c 15 N71-20739

Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098

Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122

Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114

Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137

Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392

Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090

Electrophoretic sample insertion
[NASA-CASE-MFS-21395-1] c 25 N74-26948

Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744

Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759

Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804

Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753

Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286

General Electric Co., Pleasanton, CA.
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729

General Electric Co., Schenectady, NY.
Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969

Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460

Automatic transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350

Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279

General Electric Co., Utica, NY.
Method of determining bond quality of power transistors attached to substrates
[NASA-CASE-MFS-21931-1] c 37 N75-26372

General Motors Corp., Detroit, MI.
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243

General Motors Corp., Milwaukee, WI.
Adjustable tension wire guide Patent
[NASA-CASE-XMS-02383] c 15 N71-15918

General Motors Corp., Santa Barbara, CA.
Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091

General Precision, Inc., Little Falls, NJ.
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724

General Precision, Inc., Sunnyvale, CA.
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156

General Precision Systems, Inc., Little Falls, NJ.
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603

General Research Corp., Santa Barbara, CA.
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479

General Technologies Corp., Reston, VA.
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171

Geophysics Corp. of America, Bedford, MA.
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081

Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450

Geophysics Corp. of America, Boston, MA.
Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408

George Washington Univ., Washington, DC.
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435

Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566

Giannini Scientific Corp., Santa Ana, CA.
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318

Combination automatic-starting electrical plasma torch and gas shutoff valve
[NASA-CASE-XLE-10717] c 37 N75-29426

Giner, Inc., Waltham, MA.
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

Globe-Union, Inc., Milwaukee, WI.
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037

Goodyear Aerospace Corp., Akron, OH.
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580

Method of making a filament-wound container
[NASA-CASE-XLE-03803-2] c 15 N71-17651

Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816

Panelized high performance multilayer insulation
Patent
[NASA-CASE-MFS-14023] c 33 N71-25351

Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155

Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323

Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540

Grace (W. R.) and Co., Clarksville, MD.
Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363

Grumman Aerospace Corp., Bethpage, NY.
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N86-27593

Grumman Aircraft Engineering Corp., Bethpage, NY.
Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600

Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417

Gulf General Atomic, San Diego, CA.
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365

Gulton Industries, Inc., Albuquerque, NM.
Analog-to-digital converter
[NASA-CASE-MSC-13110-1] c 08 N72-22163

Hamilton Standard, Windsor Locks, CT.
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333

Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722

Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280

Slow opening valve
[NASA-CASE-MSC-20112-1] c 37 N85-20338

Hamilton Standard Div., United Aircraft Corp., Windsor Locks, CT.
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

Harris Corp., Melbourne, FL.
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358

Telescoping columns
[NASA-CASE-LAR-12195-1] c 31 N81-27324

Hayes International Corp., Birmingham, AL.
Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845

Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486

Hayes International Corp., Huntsville, AL.
Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628

Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656

Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433

Hazleton Labs., Falls Church, VA.
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355

Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705

Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465

HC Chem Research and Service, San Jose, CA.
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590

Hercules, Inc., Wilmington, DE.
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001

Hoffman Electronics Corp., El Monte, CA.
Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267

Honeywell, Inc., Hopkins, MN.
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418

Honeywell, Inc., Minneapolis, MN.
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987

Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531

Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470

High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569

Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813

Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824

Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255

Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811

Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160

Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249

Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462

Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095

Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482

Honeywell, Inc., Saint Petersburg, FL.
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

Houston Univ., TX.
Analysis of volatile organic compounds
[NASA-CASE-MSC-14428-1] c 23 N77-17161

Howard Univ., Washington, DC.
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150

Hughes Aircraft Co., Culver City, CA.
Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HCN-00936] c 31 N71-29050
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160

Hughes Aircraft Co., Los Angeles, CA.
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516

Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Flexible, repairable, pottable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

Hughes Research Labs., Malibu, CA.

Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429

IIT Research Inst., Chicago, IL.

Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532
Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237

ILC Technology, Inc., Sunnyvale, CA.

Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427

Illinois Univ., Urbana.

Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

Image Information, Inc., Danbury, CT.

Recorder/processor apparatus
[NASA-CASE-GSC-11553-1] c 35 N74-15831

Inca Engineering Corp., San Gabriel, CA.

Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730

Institute for Research, Inc., Houston, TX.

Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120

Institute of Research and Instrumentation, Houston, TX.

Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346

International Business Machines Corp., Hopewell Junction, NY.

Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798

International Business Machines Corp., New York, NY.

Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734

Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809

Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135

International Business Machines Corp., Poughkeepsie, NY.

Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245

International Harvester Co., San Diego, CA.

Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040

International Laser Systems, Inc., Orlando, FL.

Active lamp pulse driver circuit
[NASA-CASE-GSC-12566-1] c 33 N83-34189

Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509

International Latex Corp., Dover, DE.

Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012

Isomet Corp., Palisades Park, NJ.

Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750

ITT Corp., Nutley, NJ.

Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473

Satellite interlace synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149

J

James and Associates, Lancaster, CA.

System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075

Jet Propulsion Lab., California Inst. of Tech., Pasadena.

Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541

Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923

Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928

Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929

Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185

Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190

Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319

Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329

Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333

Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500

Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504

Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244

Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736

Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895

Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929

Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935

Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936

Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937

Thermionic tantalum emitter doped with oxygen Patent
Application
[NASA-CASE-NPO-11138] c 03 N70-34646

Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675

Electro-optical scanning apparatus Patent Application
[NASA-CASE-NPO-11106] c 14 N70-34697

Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699

Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946

Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967

Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089

Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219

Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220

Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382

Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395

Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423

Cassegrainian antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425

Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666

Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803

Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907

High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908

Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910

Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911

Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938

Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947

Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181

Expulsion bladder-equipped storage tank structure Patent
[NASA-CASE-XNP-00612] c 11 N70-38182

High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201

Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202

Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225

Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249

Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603

Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620

Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645

Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675

Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996

Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998

Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931

Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273

Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275

Parallel motion suspension device Patent
[NASA-CASE-XNP-01567] c 15 N70-41310

Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311

Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370

High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447

Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680

Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807

Antilitter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811

Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856

Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897

Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929

Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930

Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960

Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961

Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991

Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659

Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676

Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728

High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778

Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050

Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051

Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056

Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267

Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281

Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285

Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255

Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260

Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502

Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503

Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505

Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506

Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515

Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520

Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540

Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554

Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530

Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467

Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599

Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604

Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608

High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622

Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688

Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906

Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907

Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960

Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057

Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101

Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210

Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357

Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365

Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584

Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645

Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655

Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662

Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685

Sealed separable connection Patent
[NASA-CASE-NPO-10064] c 15 N71-17693

Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694

Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701

Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465

Ranging system Patent
[NASA-CASE-NPO-10066] c 09 N71-18598

High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625

Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694

Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698

A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723

Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843

Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288

Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420

High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516

Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545

Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610

Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687

Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273

Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407

Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440

Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445

Synchronous servo loop control system Patent
[NASA-CASE-NPO-03744] c 10 N71-20448

Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461

Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791

Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814

High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842

Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851

Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078

Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091

Holder for crystal resonators Patent [NASA-CASE-XNP-03637]	c 15	N71-21311	Fluid containers and resealable septum therefor Patent [NASA-CASE-NPO-10123]	c 15	N71-24835	Epoxy-aziridine polymer product Patent [NASA-CASE-NPO-10701]	c 06	N71-28620
Correlation function apparatus Patent [NASA-CASE-XNP-00746]	c 07	N71-21476	Temperature telemetric transmitter Patent [NASA-CASE-NPO-10649]	c 07	N71-24840	Fluid impervious barrier including liquid metal alloy and method of making same Patent [NASA-CASE-XNP-08881]	c 17	N71-28747
Split nut separation system Patent [NASA-CASE-XNP-06914]	c 15	N71-21489	Tuning arrangement for an electron discharge device or the like Patent [NASA-CASE-XNP-09771]	c 09	N71-24841	Wind tunnel microphone structure Patent [NASA-CASE-XNP-00250]	c 11	N71-28779
Light position locating system Patent [NASA-CASE-XNP-01059]	c 23	N71-21821	Noise limiter Patent [NASA-CASE-NPO-10169]	c 10	N71-24844	Trialkyl-dihaloantimony and niobium compounds Patent [NASA-CASE-XNP-04023]	c 06	N71-28808
Electron bombardment ion engine Patent [NASA-CASE-XNP-04124]	c 28	N71-21822	Noninterruptable digital counting system Patent [NASA-CASE-XNP-09759]	c 08	N71-24891	Digital memory sense amplifying means Patent [NASA-CASE-XNP-01012]	c 08	N71-28925
Data compressor Patent [NASA-CASE-XNP-04067]	c 08	N71-22707	Drive circuit for minimizing power consumption in inductive load Patent [NASA-CASE-NPO-10716]	c 09	N71-24892	Digital filter for reducing sampling jitter in digital control systems Patent [NASA-CASE-NPO-11088]	c 08	N71-29034
Error correcting method and apparatus Patent [NASA-CASE-XNP-02748]	c 08	N71-22749	Space simulator Patent [NASA-CASE-NPO-10141]	c 11	N71-24964	Method and apparatus for aligning a laser beam projector Patent [NASA-CASE-NPO-11087]	c 23	N71-29125
Counter and shift register Patent [NASA-CASE-XNP-01753]	c 08	N71-22897	Process for reducing secondary electron emission Patent [NASA-CASE-XNP-09469]	c 24	N71-25555	Rotable accurate reflector system for telescopes Patent [NASA-CASE-NPO-10468]	c 23	N71-33229
Friction measuring apparatus Patent [NASA-CASE-XNP-08680]	c 14	N71-22995	Minimal logic block encoder Patent [NASA-CASE-NPO-10595]	c 10	N71-25917	Encoder/decoder system for a rapidly synchronizable binary code Patent [NASA-CASE-NPO-10342]	c 10	N71-33407
Hybrid lubrication system and bearing Patent [NASA-CASE-XNP-01641]	c 15	N71-22997	Novel polycarboxylic prepolymeric materials and polymers thereof Patent [NASA-CASE-NPO-10596]	c 06	N71-25929	High power microwave power divider Patent [NASA-CASE-NPO-11031]	c 07	N71-33606
Filler valve Patent [NASA-CASE-XNP-01747]	c 15	N71-23024	Current steering switch Patent [NASA-CASE-XNP-08567]	c 09	N71-26000	A dc servosystem including an ac motor Patent [NASA-CASE-NPO-10700]	c 07	N71-33613
Refrigeration apparatus Patent [NASA-CASE-XNP-08877]	c 15	N71-23025	Dual polarity full wave dc motor drive Patent [NASA-CASE-XNP-07477]	c 09	N71-26092	Solar cell matrix [NASA-CASE-NPO-11190]	c 03	N71-34044
Reduced bandwidth video communication system utilizing sampling techniques Patent [NASA-CASE-XNP-02791]	c 07	N71-23026	High impact antenna Patent [NASA-CASE-NPO-10231]	c 07	N71-26101	Manually actuated heat pump [NASA-CASE-NPO-10677]	c 05	N72-11084
Model launcher for wind tunnels Patent [NASA-CASE-XNP-03578]	c 11	N71-23030	Video communication system and apparatus Patent [NASA-CASE-XNP-06611]	c 07	N71-26102	Virtual wall slot circularly polarized planar array antenna [NASA-CASE-NPO-10301]	c 07	N72-11148
Drive circuit utilizing two cores Patent [NASA-CASE-XNP-01318]	c 10	N71-23033	Parallel generation of the check bits of a PN sequence Patent [NASA-CASE-XNP-04623]	c 10	N71-26103	System for controlling the operation of a variable signal device [NASA-CASE-NPO-11064]	c 07	N72-11150
Solar vane actuator Patent [NASA-CASE-XNP-05535]	c 14	N71-23040	Phase multiplying electronic scanning system Patent [NASA-CASE-NPO-10302]	c 10	N71-26142	Method and apparatus for data compression by a decreasing slope threshold test [NASA-CASE-NPO-10769]	c 08	N72-11171
Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent [NASA-CASE-XNP-01056]	c 14	N71-23041	Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent [NASA-CASE-NPO-10625]	c 09	N71-26182	Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test [NASA-CASE-NPO-10778]	c 14	N72-11364
Connector internal force gauge Patent [NASA-CASE-XNP-03918]	c 14	N71-23087	Fluid phase analyzer Patent [NASA-CASE-NPO-10691]	c 14	N71-26199	Vibration isolation system using compression springs [NASA-CASE-NPO-11012]	c 15	N72-11391
Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent [NASA-CASE-XNP-02140]	c 09	N71-23097	Variable frequency nuclear magnetic resonance spectrometer Patent [NASA-CASE-XNP-09830]	c 14	N71-26266	Feed system for an ion thruster [NASA-CASE-NPO-10737]	c 28	N72-11709
Method of resolving clock synchronization error and means therefor Patent [NASA-CASE-XNP-08875]	c 10	N71-23099	Time synchronization system utilizing moon reflected coded signals Patent [NASA-CASE-NPO-10143]	c 10	N71-26326	Thermostatic actuator [NASA-CASE-NPO-10637]	c 15	N72-12409
Impact testing machine Patent [NASA-CASE-XNP-04817]	c 14	N71-23225	Broadband stable power multiplier Patent [NASA-CASE-XNP-10854]	c 10	N71-26331	High voltage transistor amplifier with constant current load [NASA-CASE-NPO-11023]	c 09	N72-17155
Zeta potential flowmeter Patent [NASA-CASE-XNP-06509]	c 14	N71-23226	Cascaded complementary pair broadband transistor amplifiers Patent [NASA-CASE-NPO-10003]	c 10	N71-26415	Reference voltage switching unit [NASA-CASE-NPO-11253]	c 09	N72-17157
Comparator for the comparison of two binary numbers Patent [NASA-CASE-XNP-04819]	c 08	N71-23295	Digital memory in which the driving of each word location is controlled by a switch core Patent [NASA-CASE-XNP-01466]	c 10	N71-26434	Valving device for automatic refilling in cryogenic liquid systems [NASA-CASE-NPO-11177]	c 15	N72-17453
Decontamination of petroleum products Patent [NASA-CASE-XNP-03835]	c 06	N71-23499	Conically shaped cavity radiometer with a dual purpose cone winding Patent [NASA-CASE-XNP-09701]	c 14	N71-26475	Expandable support means [NASA-CASE-NPO-11059]	c 15	N72-17454
Dicyanoacetylene polymers Patent [NASA-CASE-XNP-03250]	c 06	N71-23500	Analog signal integration and reconstruction system Patent [NASA-CASE-NPO-10344]	c 10	N71-26544	Breakaway connector [NASA-CASE-NPO-11140]	c 15	N72-17455
Indexing microwave switch Patent [NASA-CASE-XNP-06507]	c 09	N71-23548	Rapid sync acquisition system Patent [NASA-CASE-NPO-10214]	c 10	N71-26577	Modular encoder [NASA-CASE-NPO-10629]	c 08	N72-18184
Millimeter wave radiometer for radio astronomy Patent [NASA-CASE-XNP-09832]	c 30	N71-23723	Cryogenic cooling system Patent [NASA-CASE-NPO-10467]	c 23	N71-26654	Transition tracking bit synchronization system [NASA-CASE-NPO-10844]	c 07	N72-20140
Radiant energy intensity measurement system Patent [NASA-CASE-XNP-06510]	c 14	N71-23797	Vacuum evaporator with electromagnetic ion steering Patent [NASA-CASE-NPO-10331]	c 09	N71-26701	Data compression system [NASA-CASE-NPO-11243]	c 07	N72-20154
High speed phase detector Patent [NASA-CASE-XNP-01306-2]	c 09	N71-24596	Automated fluid chemical analyzer Patent [NASA-CASE-XNP-09451]	c 06	N71-26754	Digital quasi-exponential function generator [NASA-CASE-NPO-11130]	c 08	N72-20176
Apparatus for testing polymeric materials Patent [NASA-CASE-XNP-09699]	c 06	N71-24607	Material handling device Patent [NASA-CASE-XNP-09770-3]	c 11	N71-27036	Method and apparatus for high resolution spectral analysis [NASA-CASE-NPO-10748]	c 08	N72-20177
Digital synchronizer Patent [NASA-CASE-NPO-10851]	c 07	N71-24613	Pressure seal Patent [NASA-CASE-NPO-10796]	c 15	N71-27068	Flow rate switch [NASA-CASE-NPO-10722]	c 09	N72-20199
Signal processing apparatus for multiplex transmission Patent [NASA-CASE-NPO-10388]	c 07	N71-24622	Multiducted electromagnetic pump Patent [NASA-CASE-NPO-10755]	c 15	N71-27084	Electrical connector [NASA-CASE-NPO-10694]	c 09	N72-20200
Self-testing and repairing computer Patent [NASA-CASE-NPO-10567]	c 08	N71-24633	Peak acceleration limiter for vibrational tester Patent [NASA-CASE-NPO-10556]	c 14	N71-27185	Wide band doubler and sine wave quadrature generator [NASA-CASE-NPO-11133]	c 10	N72-20223
Serial digital decoder Patent [NASA-CASE-NPO-10150]	c 08	N71-24650	Thin film capacitive bolometer and temperature sensor Patent [NASA-CASE-NPO-10607]	c 09	N71-27232	Signal phase estimator [NASA-CASE-NPO-11203]	c 10	N72-20224
Detentling servomotor Patent [NASA-CASE-XNP-06936]	c 15	N71-24695	Black body cavity radiometer Patent [NASA-CASE-NPO-10810]	c 14	N71-27323	Optimal control system for an electric motor driven vehicle [NASA-CASE-NPO-11210]	c 11	N72-20244
Reversible motion drive system Patent [NASA-CASE-NPO-10173]	c 15	N71-24696	Video signal enhancement system with dynamic range compression and modulation index expansion Patent [NASA-CASE-NPO-10343]	c 07	N71-27341	Impact energy absorbing system utilizing fractureable material [NASA-CASE-NPO-10671]	c 15	N72-20443
Decoder system Patent [NASA-CASE-NPO-10118]	c 07	N71-24741	Force-balanced, throttle valve Patent [NASA-CASE-NPO-10808]	c 15	N71-27432	Torsional disconnect unit [NASA-CASE-NPO-10704]	c 15	N72-20445
Television signal processing system Patent [NASA-CASE-NPO-10140]	c 07	N71-24742	Cavity emitter for thermionic converter Patent [NASA-CASE-NPO-10412]	c 09	N71-28421	Solid propellant rocket motor [NASA-CASE-XNP-03282]	c 28	N72-20758
Switching circuit Patent [NASA-CASE-XNP-06505]	c 10	N71-24799	Frictionless universal joint Patent [NASA-CASE-NPO-10646]	c 15	N71-28467	Shell side liquid metal boiler [NASA-CASE-NPO-10831]	c 33	N72-20915
Magnetic power switch Patent [NASA-CASE-NPO-10242]	c 09	N71-24803				Method and apparatus for mapping planets [NASA-CASE-NPO-11001]	c 07	N72-21118
Remodulator filter Patent [NASA-CASE-NPO-10198]	c 09	N71-24806						
Broadband microwave waveguide window Patent [NASA-CASE-XNP-08880]	c 09	N71-24808						
Cavity radiometer Patent [NASA-CASE-XNP-08961]	c 14	N71-24809						
High-gain, broadband traveling wave maser Patent [NASA-CASE-NPO-10548]	c 16	N71-24831						

Current steering commutator			Singly-curved reflector for use in high-gain antennas		Disconnect unit			
[NASA-CASE-NPO-10743]	c 08	N72-21199	[NASA-CASE-NPO-11361]	c 07	N72-32169	[NASA-CASE-NPO-11330]	c 33	N73-26958
Automated equipotential plotter			Digital slope threshold data compressor			Filter for third order phase locked loops		
[NASA-CASE-NPO-11134]	c 09	N72-21246	[NASA-CASE-NPO-11630]	c 08	N72-33172	[NASA-CASE-NPO-11941-1]	c 10	N73-27171
Pressure transducer			Continuously variable voltage controlled phase shifter			Receiver with an improved phase lock loop in a		
[NASA-CASE-NPO-10832]	c 14	N72-21405	[NASA-CASE-NPO-11129]	c 09	N72-33204	multichannel telemetry system with suppressed carrier		
Positioning mechanism			Pseudonoise sequence generators with three tap linear			[NASA-CASE-NPO-11593-1]	c 07	N73-28012
[NASA-CASE-NPO-10679]	c 15	N72-21462	feedback shift registers			Analog-to-digital converter		
Solid state matrices			[NASA-CASE-NPO-11406]	c 08	N73-12175	[NASA-CASE-NXP-00477]	c 08	N73-28045
[NASA-CASE-NPO-10591]	c 03	N72-22041	Versatile arithmetic unit for high speed sequential			Pseudonoise (PN) synchronization of data system with		
Solar cell panels with light transmitting plate			decoder			derivation of clock frequency from received signal for		
[NASA-CASE-NPO-10747]	c 03	N72-22042	[NASA-CASE-NPO-11371]	c 08	N73-12177	clocking receiver PN generator		
Data multiplexer using tree switching configuration			Dual frequency microwave reflex feed			[NASA-CASE-NXP-03623]	c 09	N73-28084
[NASA-CASE-NPO-11333]	c 08	N72-22162	[NASA-CASE-NPO-13091-1]	c 09	N73-12214	Apparatus and method for measuring the Seebeck		
System for quantizing graphic displays			Audio system with means for reducing noise effects			coefficient and resistivity of materials		
[NASA-CASE-NPO-10745]	c 08	N72-22164	[NASA-CASE-NPO-11631]	c 10	N73-12244	[NASA-CASE-NPO-11749]	c 14	N73-28486
Digital function generator			Interferometer-polarimeter			Dual purpose optical instrument capable of		
[NASA-CASE-NPO-11104]	c 08	N72-22165	[NASA-CASE-NPO-11239]	c 14	N73-12446	simultaneously acting as spectrometer and		
Analog-to-digital converter analyzing system			Irradiance measuring device			diffractometer		
[NASA-CASE-NPO-10560]	c 08	N72-22166	[NASA-CASE-NPO-11493]	c 14	N73-12447	[NASA-CASE-NXP-05231]	c 14	N73-28491
Feedback shift register with states decomposed into			Program for computer aided reliability estimation			Continuous magnetic flux pump		
cycles of equal length			[NASA-CASE-NPO-13086-1]	c 15	N73-12495	[NASA-CASE-NXP-01187]	c 15	N73-28516
[NASA-CASE-NPO-11082]	c 08	N72-22167	Apparatus for deriving synchronizing pulses from pulses			Preparation of alkali metal dispersions		
Self-obturator, gas operated launcher			in a single channel PCM communications system			[NASA-CASE-NXP-08876]	c 17	N73-28573
[NASA-CASE-NPO-11013]	c 11	N72-22247	[NASA-CASE-NPO-11302-1]	c 07	N73-13149	Superconductive magnetic-field-trapping device		
Optical binocular scanning apparatus			Rotary vane attenuator wherein rotor has orthogonally			[NASA-CASE-NXP-01185]	c 26	N73-28710
[NASA-CASE-NPO-11002]	c 14	N72-22441	disposed resistive and dielectric cards			Automatic carrier acquisition system		
Ionene membrane separator			[NASA-CASE-NPO-11418-1]	c 14	N73-13420	[NASA-CASE-NPO-11628-1]	c 07	N73-30113
[NASA-CASE-NPO-11091]	c 18	N72-22567	Gas flow control device			Ferrofluidic solenoid		
Deployable solar cell array			[NASA-CASE-NPO-11479]	c 15	N73-13462	[NASA-CASE-NPO-11738-1]	c 09	N73-30185
[NASA-CASE-NPO-10883]	c 31	N72-22874	Electrolytic gas operated actuator			Silent emergency alarm system for schools and the		
Thermal to electrical power conversion system with			[NASA-CASE-NPO-11369]	c 15	N73-13467	like		
solid-state switches with Seebeck effect compensation			Dual purpose momentum wheels for spacecraft with			[NASA-CASE-NPO-11307-1]	c 10	N73-30205
[NASA-CASE-NPO-11388]	c 03	N72-23048	magnetic recording			RF-source resistance meters		
Optical frequency waveguide and transmission system			[NASA-CASE-NPO-11481]	c 21	N73-13644	[NASA-CASE-NPO-11291-1]	c 14	N73-30388
[NASA-CASE-HQN-10541-3]	c 23	N72-23695	Multiple reflection conical microwave antenna			Event sequence detector		
Bipropellant injector			[NASA-CASE-NPO-11661]	c 07	N73-14130	[NASA-CASE-NPO-11703-1]	c 10	N73-32144
[NASA-CASE-NXP-09461]	c 28	N72-23809	Cyclically operable optical shutter			Soil penetrometer		
Solid propellant rocket motor nozzle			[NASA-CASE-NPO-10758]	c 14	N73-14427	[NASA-CASE-NXP-05530]	c 14	N73-32321
[NASA-CASE-NPO-11458]	c 28	N72-23810	Heat detection and compositions and devices therefor			Quadrupole mass filter with means to generate a noise		
Analysis of hydrogen-deuterium mixtures			[NASA-CASE-NPO-10764-1]	c 14	N73-14428	spectrum exclusive of the resonant frequency of the		
[NASA-CASE-NPO-11322]	c 06	N72-25146	Parallel-plate viscometer with double diaphragm			desired ions to deflect stable ions		
Flexible computer accessed telemetry			suspension			[NASA-CASE-NXP-04231]	c 14	N73-32325
[NASA-CASE-NPO-11358]	c 07	N72-25172	[NASA-CASE-NPO-11387]	c 14	N73-14429	Magnetic-flux pump		
Multi-purpose antenna employing dish reflector with			Rotary actuator			[NASA-CASE-NXP-01188]	c 15	N73-32361
plural coaxial horn feeds			[NASA-CASE-NPO-10680]	c 31	N73-14855	Burrowing apparatus		
[NASA-CASE-NPO-11264]	c 07	N72-25174	Magnetically actuated tuning method for Gunn			[NASA-CASE-NXP-07169]	c 15	N73-32362
Communications link for computers			oscillators			Electrostatically controlled heat shutter		
[NASA-CASE-NPO-11161]	c 08	N72-25207	[NASA-CASE-NPO-12106]	c 09	N73-15235	[NASA-CASE-NPO-11942-1]	c 33	N73-32818
Method and apparatus for frequency-division multiplex			Multichannel telemetry system			Method and apparatus for a single channel digital		
communications by digital phase shift of carrier			[NASA-CASE-NPO-11572]	c 07	N73-16121	communications system		
[NASA-CASE-NPO-11338]	c 08	N72-25208	Data-aided carrier tracking loops			[NASA-CASE-NPO-11302-2]	c 32	N74-10132
Binary coded sequential acquisition ranging system			[NASA-CASE-NPO-11282]	c 10	N73-16205	Controlled oscillator system with a time dependent		
[NASA-CASE-NPO-11194]	c 08	N72-25209	Stacked solar cell arrays			output frequency		
MOD 2 sequential function generator for multibit binary			[NASA-CASE-NPO-11771]	c 03	N73-20040	[NASA-CASE-NPO-11962-1]	c 33	N74-10194
sequence			A m-ary linear feedback shift register with binary logic			Low loss dichroic plate		
[NASA-CASE-NPO-10636]	c 08	N72-25210	[NASA-CASE-NPO-11868]	c 10	N73-20254	[NASA-CASE-NPO-13171-1]	c 32	N74-11000
Digital video display system using cathode ray tube			Apparatus for recovering matter adhered to a host			Image data rate converter having a drum with a fixed		
[NASA-CASE-NPO-11342]	c 09	N72-25248	surface			head and a rotatable head		
Inverter oscillator with voltage feedback			[NASA-CASE-NPO-11213]	c 15	N73-20514	[NASA-CASE-NPO-11659-1]	c 35	N74-11283
[NASA-CASE-NPO-10760]	c 09	N72-25254	Scan converting video tape recorder			Monitoring atmospheric pollutants with a heterodyne		
Thermal motor			[NASA-CASE-NPO-10166-1]	c 07	N73-22076	radiometer transmitter-receiver		
[NASA-CASE-NPO-11283]	c 09	N72-25260	Collapsible structure for an antenna reflector			[NASA-CASE-NPO-11919-1]	c 35	N74-11284
Two phase flow system with discrete impinging			[NASA-CASE-NPO-11751]	c 07	N73-24176	Digital second-order phase-locked loop		
two-phase jets			Pump for delivering heated fluids			[NASA-CASE-NPO-11905-1]	c 33	N74-12887
[NASA-CASE-NPO-11556]	c 12	N72-25292	[NASA-CASE-NPO-11417]	c 15	N73-24513	Automatic vehicle location system		
Atmospheric sampling devices			Ion thruster with a combination keeper electrode and			[NASA-CASE-NPO-11850-1]	c 32	N74-12912
[NASA-CASE-NPO-11373]	c 13	N72-25323	electron baffle			Thermomagnetic recording and magneto-optic playback		
Light sensor			[NASA-CASE-NPO-11880]	c 28	N73-24783	system having constant intensity laser beam control		
[NASA-CASE-NPO-11311]	c 14	N72-25414	Solid propellant rocket motor			[NASA-CASE-NPO-11317-2]	c 36	N74-13205
Quick disconnect coupling			[NASA-CASE-NPO-11559]	c 28	N73-24784	Use of thin film light detector		
[NASA-CASE-NPO-11202]	c 15	N72-25450	Code regenerative clean-up loop transponder for a			[NASA-CASE-NPO-11432-2]	c 35	N74-15090
Coaxial injector for reaction motors			mu-type ranging system			Temperature compensated digital inertial sensor		
[NASA-CASE-NPO-11095]	c 15	N72-25455	[NASA-CASE-NPO-11707]	c 07	N73-25161	[NASA-CASE-NPO-13044-1]	c 35	N74-15094
Ball screw linear actuator			Numerical computer peripheral interactive device with			Compact hydrogenator		
[NASA-CASE-NPO-11222]	c 15	N72-25456	manual controls			[NASA-CASE-NPO-11682-1]	c 35	N74-15127
Helium refrigerator and method for decontaminating the			[NASA-CASE-NPO-11497]	c 08	N73-25206	Short range laser obstacle detector		
refrigerator			Radiant source tracker independent of nonconstant			[NASA-CASE-NPO-11856-1]	c 36	N74-15145
[NASA-CASE-NPO-10634]	c 23	N72-25619	irradiance			System for stabilizing cable phase delay utilizing a		
Uninsulated in-core thermionic diode			[NASA-CASE-NPO-11686]	c 14	N73-25462	coaxial cable under pressure		
[NASA-CASE-NPO-10542]	c 09	N72-27228	Two carrier communication system with single			[NASA-CASE-NPO-13138-1]	c 33	N74-17927
Audio frequency marker system			transmitter			Storage battery comprising negative plates of a wedge		
[NASA-CASE-NPO-11147]	c 14	N72-27408	[NASA-CASE-NPO-11548]	c 07	N73-26118	shaped configuration		
Light direction sensor			High pulse rate high resolution optical radar system			[NASA-CASE-NPO-11806-1]	c 44	N74-19693
[NASA-CASE-NPO-11201]	c 14	N72-27409	[NASA-CASE-NPO-11426]	c 07	N73-26119	Gated compressor, distortionless signal limiter		
Adjustable support			Counting digital filters			[NASA-CASE-NPO-11820-1]	c 32	N74-19788
[NASA-CASE-NPO-10721]	c 15	N72-27484	[NASA-CASE-NPO-11821-1]	c 08	N73-26175	Apparatus for scanning the surface of a cylindrical		
Method for controlling vapor content of a gas			Automated attendance accounting system			body		
[NASA-CASE-NPO-10633]	c 03	N72-28025	[NASA-CASE-NPO-11456]	c 08	N73-26176	[NASA-CASE-NPO-11861-1]	c 36	N74-20009
Maser for frequencies in the 7-20 GHz range			Low phase noise digital frequency divider			Decision feedback loop for tracking a polyphase		
[NASA-CASE-NPO-11437]	c 16	N72-28521	[NASA-CASE-NPO-11569]	c 10	N73-26229	modulated carrier		
Thin film temperature sensor and method of making			Vehicle for use in planetary exploration			[NASA-CASE-NPO-13103-1]	c 32	N74-20811
same			[NASA-CASE-NPO-11366]	c 11	N73-26238	Optically actuated two position mechanical mover		
[NASA-CASE-NPO-11775]	c 26	N72-28761	Temperature control system with a pulse width			[NASA-CASE-NPO-13105-1]	c 37	N74-21060
Circularly polarized antenna			modulated bridge			Thin film gauge		
[NASA-CASE-ERC-10214]	c 09	N72-31235	[NASA-CASE-NPO-11304]	c 14	N73-26430	[NASA-CASE-NPO-10617-1]	c 35	N74-22095

High isolation RF signal selection switches [NASA-CASE-NPO-13081-1]	c 33	N74-22814	Nonlinear nonsingular feedback shift registers [NASA-CASE-NPO-13451-1]	c 33	N76-14373	The dc-to-dc converters employing staggered-phase power switches with two-loop control [NASA-CASE-NPO-13512-1]	c 33	N77-10428
Single reflector interference spectrometer and drive system therefor [NASA-CASE-NPO-11932-1]	c 35	N74-23040	Strain gage mounting assembly [NASA-CASE-NPO-13170-1]	c 35	N76-14430	Ion and electron detector for use in an ICR spectrometer [NASA-CASE-NPO-13479-1]	c 35	N77-10492
Scanning nozzle plating system [NASA-CASE-NPO-11758-1]	c 31	N74-23065	Thermostatically controlled non-tracking type solar energy concentrator [NASA-CASE-NPO-13497-1]	c 44	N76-14602	Hydrogen-rich gas generator [NASA-CASE-NPO-13560-1]	c 44	N77-10636
Rock sampling [NASA-CASE-NXP-10007-1]	c 46	N74-23068	Multi-computer multiple data path hardware exchange system [NASA-CASE-NPO-13422-1]	c 60	N76-14818	Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel [NASA-CASE-NPO-13545-1]	c 32	N77-12240
Rock sampling [NASA-CASE-NXP-09755]	c 46	N74-23069	Cermet composition and method of fabrication [NASA-CASE-NPO-13120-1]	c 27	N76-15311	Computer interface system [NASA-CASE-NPO-13428-1]	c 60	N77-12721
Miniature multichannel biotelemetry system [NASA-CASE-NPO-13065-1]	c 52	N74-26625	Dichroic plate [NASA-CASE-NPO-13506-1]	c 35	N76-15435	High temperature oxidation resistant cermet compositions [NASA-CASE-NPO-13666-1]	c 27	N77-13217
Dispensing targets for ion beam particle generators [NASA-CASE-NPO-13112-1]	c 73	N74-26767	Magnetometer using superconducting rotating body [NASA-CASE-NPO-13388-1]	c 35	N76-16390	Frequency discriminator and phase detector circuit [NASA-CASE-NPO-11515-1]	c 33	N77-13315
Optically detonated explosive device [NASA-CASE-NPO-11743-1]	c 28	N74-27425	Scan converting video tape recorder [NASA-CASE-NPO-10166-2]	c 35	N76-16391	Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump [NASA-CASE-NPO-13663-1]	c 35	N77-14406
Coherent receiver employing nonlinear coherence detection for carrier tracking [NASA-CASE-NPO-11921-1]	c 32	N74-30523	Hydrogen rich gas generator [NASA-CASE-NPO-13342-1]	c 37	N76-16446	Thermocouple installation [NASA-CASE-NPO-13540-1]	c 35	N77-14409
Digital servo control of random sound test excitation [NASA-CASE-NPO-11623-1]	c 71	N74-31148	Automated system for identifying traces of organic chemical compounds in aqueous solutions [NASA-CASE-NPO-13063-1]	c 25	N76-18245	Method and apparatus for background signal reduction in opto-acoustic absorption measurement [NASA-CASE-NPO-13683-1]	c 35	N77-14411
Apparatus for forming drive belts [NASA-CASE-NPO-13205-1]	c 31	N74-32917	Analog to digital converter [NASA-CASE-NPO-13385-1]	c 33	N76-18345	Nuclear thermionic converter [NASA-CASE-NPO-13121-1]	c 73	N77-18891
Tool for use in lifting pin supported objects [NASA-CASE-NPO-13157-1]	c 37	N74-32918	Sampler of gas borne particles [NASA-CASE-NPO-13396-1]	c 35	N76-18401	Multiple rate digital command detection system with range clean-up capability [NASA-CASE-NPO-13753-1]	c 32	N77-20289
Preparing oxidizer coated metal fuel particles [NASA-CASE-NPO-11975-1]	c 28	N74-33209	Stark-effect modulation of CO ₂ laser with NH ₂ D [NASA-CASE-NPO-11945-1]	c 36	N76-18427	Charge storage diode modulators and demodulators [NASA-CASE-NPO-10189-1]	c 33	N77-21314
Geneva mechanism [NASA-CASE-NPO-13281-1]	c 37	N75-13266	Diffused waveguiding capillary tube with distributed feedback for a gas laser [NASA-CASE-NPO-13544-1]	c 36	N76-18428	Compact, high intensity arc lamp with internal magnetic field producing means [NASA-CASE-NPO-11510-1]	c 33	N77-21315
Method of producing a storage bulb for an atomic hydrogen maser [NASA-CASE-NPO-13050-1]	c 36	N75-15029	System for minimizing internal combustion engine pollution emission [NASA-CASE-NPO-13402-1]	c 37	N76-18457	Depressurization of arc lamps [NASA-CASE-NPO-10790-1]	c 33	N77-21316
Combined pressure regulator and shutoff valve [NASA-CASE-NPO-13201-1]	c 37	N75-15050	Hydrogen-bromine secondary battery [NASA-CASE-NPO-13237-1]	c 44	N76-18641	Electromagnetic transducer recording head having a laminated core section and tapered gap [NASA-CASE-NPO-10711-1]	c 35	N77-21392
Simultaneous acquisition of tracking data from two stations [NASA-CASE-NPO-13232-1]	c 32	N75-15854	Hydrogen-rich gas generator [NASA-CASE-NPO-13464-1]	c 44	N76-18642	Cryogenic liquid sensor [NASA-CASE-NPO-10619-1]	c 35	N77-21393
Shock absorbing mount for electrical components [NASA-CASE-NPO-13253-1]	c 37	N75-18573	Zinc-halide battery with molten electrolyte [NASA-CASE-NPO-11961-1]	c 44	N76-18643	Uniform variable light source [NASA-CASE-NPO-11429-1]	c 74	N77-21941
System for generating timing and control signals [NASA-CASE-NPO-13125-1]	c 33	N75-19519	Priority interrupt system [NASA-CASE-NPO-13067-1]	c 60	N76-18800	Arc control in compact arc lamps [NASA-CASE-NPO-10870-1]	c 33	N77-22386
Motor run-up system [NASA-CASE-NPO-13374-1]	c 33	N75-19524	Miniature muscle displacement transducer [NASA-CASE-NPO-13519-1]	c 33	N76-19338	Hydraulic drain means for servo-systems [NASA-CASE-NPO-10316-1]	c 37	N77-22479
Deep trap, laser activated image converting system [NASA-CASE-NPO-13131-1]	c 36	N75-19652	Zero torque gear head wrench [NASA-CASE-NPO-13059-1]	c 37	N76-20480	Automated multi-level vehicle parking system [NASA-CASE-NPO-13058-1]	c 37	N77-22480
Multitarget sequential sputtering apparatus [NASA-CASE-NPO-13345-1]	c 37	N75-19684	Method and apparatus for measurement of trap density and energy distribution in dielectric films [NASA-CASE-NPO-13443-1]	c 76	N76-20994	Sun direction detection system [NASA-CASE-NPO-13722-1]	c 74	N77-22951
Wide angle sun sensor [NASA-CASE-NPO-13327-1]	c 35	N75-23910	Indicator providing continuous indication of the presence of a specific pollutant in air [NASA-CASE-NPO-13474-1]	c 45	N76-21742	Isotope separation using metallic vapor lasers [NASA-CASE-NPO-13550-1]	c 36	N77-26477
Material suspension within an acoustically excited resonant chamber [NASA-CASE-NPO-13263-1]	c 12	N75-24774	Shared memory for a fault-tolerant computer [NASA-CASE-NPO-13139-1]	c 60	N76-21914	Distributed feedback acoustic surface wave oscillator [NASA-CASE-NPO-13673-1]	c 71	N77-26919
Heat operated cryogenic electrical generator [NASA-CASE-NPO-13303-1]	c 20	N75-24837	Wind sensor [NASA-CASE-NPO-13462-1]	c 35	N76-24524	Penetrometer [NASA-CASE-NPO-11103-1]	c 35	N77-27367
System for interference signal nulling by polarization adjustment [NASA-CASE-NPO-13140-1]	c 32	N75-24982	Fiber distributed feedback laser [NASA-CASE-NPO-13531-1]	c 36	N76-24553	Lightweight reflector assembly [NASA-CASE-NPO-13707-1]	c 74	N77-28933
Heat detection and compositions and devices therefor [NASA-CASE-NPO-10764-2]	c 35	N75-25122	Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback [NASA-CASE-NPO-13346-1]	c 36	N76-29575	Aldehyde-containing urea-absorbing polysaccharides [NASA-CASE-NPO-13620-1]	c 27	N77-30236
Servo-controlled intravitral microscope system [NASA-CASE-NPO-13214-1]	c 35	N75-25123	Stirling cycle engine and refrigeration systems [NASA-CASE-NPO-13613-1]	c 37	N76-29590	Phase substitution of spare converter for a failed one of parallel phase staggered converters [NASA-CASE-NPO-13812-1]	c 33	N77-30385
Vehicle locating system utilizing AM broadcasting station carriers [NASA-CASE-NPO-13217-1]	c 32	N75-26194	Hydrogen rich gas generator [NASA-CASE-NPO-13342-2]	c 44	N76-29700	Oil and fat absorbing polymers [NASA-CASE-NPO-11609-2]	c 27	N77-31308
Asynchronous, multiplexing, single line transmission and recovery data system [NASA-CASE-NPO-13321-1]	c 32	N75-26195	Solar-powered pump [NASA-CASE-NPO-13567-1]	c 44	N76-29701	Combustion engine [NASA-CASE-NPO-13671-1]	c 37	N77-31497
Fluorescence detector for monitoring atmospheric pollutants [NASA-CASE-NPO-13231-1]	c 45	N75-27585	Hydrogen rich gas generator [NASA-CASE-NPO-13464-2]	c 44	N76-29704	Apparatus for photon excited catalysis [NASA-CASE-NPO-13566-1]	c 25	N77-32255
Cooperative multi-axis sensor for teleoperation of article manipulating apparatus [NASA-CASE-NPO-13386-1]	c 54	N75-27758	Myocardium wall thickness transducer and measuring method [NASA-CASE-NPO-13644-1]	c 52	N76-29895	Charge-coupled device data processor for an airborne imaging radar system [NASA-CASE-NPO-13587-1]	c 32	N77-32342
Heat sterilizable patient ventilator [NASA-CASE-NPO-13313-1]	c 54	N75-27761	Catheter tip force transducer for cardiovascular research [NASA-CASE-NPO-13643-1]	c 52	N76-29896	Direct reading inductance meter [NASA-CASE-NPO-13792-1]	c 35	N77-32455
Refrigerated coaxial coupling [NASA-CASE-NPO-13504-1]	c 33	N75-30430	Real time analysis of voiced sounds [NASA-CASE-NPO-13465-1]	c 32	N76-31372	Solar photolysis of water [NASA-CASE-NPO-13675-1]	c 44	N77-32580
Electric power generation system directory from laser power [NASA-CASE-NPO-13308-1]	c 36	N75-30524	High resolution Fourier interferometer-spectrophotopolarimeter [NASA-CASE-NPO-13604-1]	c 35	N76-31490	Low to high temperature energy conversion system [NASA-CASE-NPO-13510-1]	c 44	N77-32581
Subminiature insertable force transducer [NASA-CASE-NPO-13423-1]	c 33	N75-31329	Reflected-wave maser [NASA-CASE-NPO-13490-1]	c 36	N76-31512	Solar energy collection system [NASA-CASE-NPO-13810-1]	c 44	N77-32582
Symmetrical odd-modulus frequency divider [NASA-CASE-NPO-13426-1]	c 33	N75-31330	Method of making hollow elastomeric bodies [NASA-CASE-NPO-13535-1]	c 37	N76-31524	Three-dimensional tracking solar energy concentrator and method for making same [NASA-CASE-NPO-13736-1]	c 44	N77-32583
Stored charge transistor [NASA-CASE-NPO-11156-2]	c 33	N75-31331	Solar cell grid patterns [NASA-CASE-NPO-13087-2]	c 44	N76-31666	Overload protection system for power inverter [NASA-CASE-NPO-13872-1]	c 33	N78-10377
Doped Josephson tunneling junction for use in a sensitive IR detector [NASA-CASE-NPO-13348-1]	c 33	N75-31332	Furlable antenna [NASA-CASE-NPO-13553-1]	c 33	N76-32457	Photoelectron spectrometer with means for stabilizing sample surface potential [NASA-CASE-NPO-13772-1]	c 35	N78-10429
Acoustically controlled distributed feedback laser [NASA-CASE-NPO-13175-1]	c 36	N75-31427	Annular arc accelerator shock tube [NASA-CASE-NPO-13528-1]	c 09	N77-10071	Machine for use in monitoring fatigue life for a plurality of elastomeric specimens [NASA-CASE-NPO-13731-1]	c 39	N78-10493
Inert gas metallic vapor laser [NASA-CASE-NPO-13449-1]	c 36	N75-32441	Cryostat system for temperatures on the order of 2 deg K or less [NASA-CASE-NPO-13459-1]	c 31	N77-10229			
Helium refrigerator [NASA-CASE-NPO-13435-1]	c 31	N76-14284						

Portable linear-focused solar thermal energy collecting system			Dual membrane hollow fiber fuel cell and method of operating same			Circuit for automatic load sharing in parallel converter modules		
[NASA-CASE-NPO-13734-1]	c 44	N78-10554	[NASA-CASE-NPO-13732-1]	c 44	N79-10513	[NASA-CASE-NPO-14056-1]	c 33	N79-24257
Acoustic energy shaping			Combustor			Bonding machine for forming a solar array strip		
[NASA-CASE-NPO-13802-1]	c 71	N78-10837	[NASA-CASE-NPO-13958-1]	c 25	N79-11151	[NASA-CASE-NPO-13652-2]	c 44	N79-24431
High voltage, high current Schottky barrier solar cell			Surfactant-assisted liquefaction of particulate carbonaceous substances			Primary reflector for solar energy collection systems and method of making same		
[NASA-CASE-NPO-13482-1]	c 44	N78-13526	[NASA-CASE-NPO-13904-1]	c 25	N79-11152	[NASA-CASE-NPO-13579-3]	c 44	N79-24432
Durable antistatic coating for polymethylmethacrylate			Electroexplosive device			Solar energy collection system		
[NASA-CASE-NPO-13867-1]	c 27	N78-14164	[NASA-CASE-NPO-13858-1]	c 28	N79-11231	[NASA-CASE-NPO-13579-2]	c 44	N79-24433
Ultra stable frequency distribution system			Space-charge-limited solid-state triode			Compact artificial hand		
[NASA-CASE-NPO-13836-1]	c 32	N78-15323	[NASA-CASE-NPO-13064-1]	c 33	N79-11314	[NASA-CASE-NPO-13906-1]	c 54	N79-24652
Selective image area control of X-ray film exposure density			Plasma igniter for internal combustion engine			Double-sided solar cell package		
[NASA-CASE-NPO-13808-1]	c 35	N78-15461	[NASA-CASE-NPO-13828-1]	c 37	N79-11405	[NASA-CASE-NPO-14199-1]	c 44	N79-25482
Motion restraining device			Non-tracking solar energy collector system			Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means		
[NASA-CASE-NPO-13619-1]	c 37	N78-16369	[NASA-CASE-NPO-13817-1]	c 44	N79-11471	[NASA-CASE-NPO-13910-1]	c 52	N79-27836
Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof			Method of controlling defect orientation in silicon crystal ribbon growth			Chemical vapor deposition reactor		
[NASA-CASE-NPO-10557]	c 27	N78-17214	[NASA-CASE-NPO-13918-1]	c 76	N79-11920	[NASA-CASE-NPO-13650-1]	c 25	N79-28253
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement			Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells			High performance ammonium nitrate propellant		
[NASA-CASE-NPO-13764-1]	c 27	N78-17215	[NASA-CASE-NPO-14100-1]	c 44	N79-12541	[NASA-CASE-NPO-14260-1]	c 28	N79-28342
Purging means and method for Xenon arc lamps			Automated clinical system for chromosome analysis			Biocontamination and particulate detection system		
[NASA-CASE-NPO-11978]	c 31	N78-17238	[NASA-CASE-NPO-13913-1]	c 52	N79-12694	[NASA-CASE-NPO-13953-1]	c 35	N79-28527
Pressure transducer			Conical scan tracking system employing a large antenna			Multi-channel rotating optical interface for data transmission		
[NASA-CASE-NPO-11150]	c 35	N78-17359	[NASA-CASE-NPO-14009-1]	c 32	N79-13214	[NASA-CASE-NPO-14066-1]	c 74	N79-34011
Cross correlation anomaly detection system			Stabilization of He2(a 3 Sigma u + molecules in liquid helium by optical pumping for vacuum UV laser 6			Start up system for hydrogen generator used with an internal combustion engine		
[NASA-CASE-NPO-13283]	c 38	N78-17395	[NASA-CASE-NPO-13993-1]	c 72	N79-13826	[NASA-CASE-NPO-13849-1]	c 28	N80-10374
Automatic visual inspection system for microelectronics			High temperature resistant cermet and ceramic compositions			System for detecting substructure microfractures and method therefore		
[NASA-CASE-NPO-13282]	c 38	N78-17396	[NASA-CASE-NPO-13690-2]	c 27	N79-14213	[NASA-CASE-NPO-14192-1]	c 39	N80-10507
Low cost solar energy collection system			Inhibited solid propellant composition containing beryllium hydride			[NASA-CASE-NPO-14231-1]	c 46	N80-10709
[NASA-CASE-NPO-13579-1]	c 44	N78-17460	[NASA-CASE-NPO-10866-1]	c 28	N79-14228	Electromagnetic power absorber		
Differential optoacoustic absorption detector			[NASA-CASE-NPO-13687-1]	c 32	N79-14267	[NASA-CASE-NPO-13830-1]	c 32	N80-14281
[NASA-CASE-NPO-13759-1]	c 74	N78-17867	Digital demodulator-correlator			Multiple anode arc lamp system		
Interferometer mirror tilt correcting system			[NASA-CASE-NPO-13982-1]	c 32	N79-14267	[NASA-CASE-NPO-10857-1]	c 33	N80-14330
[NASA-CASE-NPO-13687-1]	c 35	N78-18391	Azimuth correlator for real-time synthetic aperture radar image processing			Method for analyzing radiation sensitivity of integrated circuits		
Over-under double-pass interferometer			[NASA-CASE-NPO-14019-1]	c 32	N79-14268	[NASA-CASE-NPO-14350-1]	c 33	N80-14332
[NASA-CASE-NPO-13999-1]	c 35	N78-18395	Apparatus for providing a servo drive signal in a high-speed stepping interferometer			Method for forming a solar array strip		
Independent gain and bandwidth control of a traveling wave maser			[NASA-CASE-NPO-13569-2]	c 35	N79-14348	[NASA-CASE-NPO-13652-3]	c 44	N80-14474
[NASA-CASE-NPO-13801-1]	c 36	N78-18410	High-torque open-end wrench			Ozonation of cooling tower waters		
High temperature resistant cermet and ceramic compositions			[NASA-CASE-NPO-13541-1]	c 37	N79-14383	[NASA-CASE-NPO-14340-1]	c 45	N80-14579
[NASA-CASE-NPO-13690-1]	c 27	N78-19302	Sun tracking solar energy collector			System for real-time crustal deformation monitoring		
Thin conformal antenna array for microwave power conversions			[NASA-CASE-NPO-13921-1]	c 44	N79-14526	[NASA-CASE-NPO-14124-1]	c 46	N80-14603
[NASA-CASE-NPO-13886-1]	c 32	N78-24391	Primary reflector for solar energy collection systems			Dialysis system		
Multistation refrigeration system			[NASA-CASE-NPO-13579-4]	c 44	N79-14529	[NASA-CASE-NPO-14101-1]	c 52	N80-14687
[NASA-CASE-NPO-13839-1]	c 31	N78-25256	Gas diffusion liquid storage bag and method of use for storing blood			High resolution threshold photoelectron spectroscopy by electron attachment		
Swept group delay measurement			[NASA-CASE-NPO-13930-1]	c 52	N79-14749	[NASA-CASE-NPO-14078-1]	c 72	N80-14877
[NASA-CASE-NPO-13909-1]	c 33	N78-25319	Coupling apparatus for ultrasonic medical diagnostic system			Strong thin membrane structure		
Polymeric electrolytic hygrometer			[NASA-CASE-NPO-13935-1]	c 52	N79-14751	[NASA-CASE-NPO-14021-2]	c 27	N80-16163
[NASA-CASE-NPO-13948-1]	c 35	N78-25391	Thermomagnetic recording and magnetic-optic playback system			Antenna feed system for receiving circular polarization and transmitting linear polarization		
Charge transfer reaction laser with preionization means			[NASA-CASE-NPO-10872-1]	c 35	N79-16246	[NASA-CASE-NPO-14362-1]	c 32	N80-16261
[NASA-CASE-NPO-13945-1]	c 36	N78-27402	Manganese bismuth films with narrow transfer characteristics for Curie-point switching			High-speed data link for moderate distances and noisy environments		
RF beam center location method and apparatus for power transmission system			[NASA-CASE-NPO-11336-1]	c 76	N79-16678	[NASA-CASE-NPO-14152-1]	c 32	N80-18252
[NASA-CASE-NPO-13821-1]	c 44	N78-28594	Multispectral imaging and analysis system			Radio frequency arraying method for receivers		
Control for nuclear thermionic power source			[NASA-CASE-NPO-13691-1]	c 43	N79-17288	[NASA-CASE-NPO-14328-1]	c 32	N80-18253
[NASA-CASE-NPO-13114-2]	c 73	N78-28913	Solar array strip and a method for forming the same			High power RF coaxial switch		
Magneto-optic detection system with noise cancellation			[NASA-CASE-NPO-13652-1]	c 44	N79-17314	[NASA-CASE-NPO-14229-1]	c 33	N80-18285
[NASA-CASE-NPO-11954-1]	c 35	N78-29421	Process for purification of waste water produced by a Kraft process pulp and paper mill			Microwave power transmission beam safety system		
Nitramine propellants			[NASA-CASE-NPO-13847-2]	c 85	N79-17747	[NASA-CASE-NPO-14224-1]	c 33	N80-18287
[NASA-CASE-NPO-14103-1]	c 28	N78-31255	Thermal energy transformer			Viscosity measuring instrument		
Reflex feed system for dual frequency antenna with frequency cutoff means			[NASA-CASE-NPO-14058-1]	c 44	N79-18443	[NASA-CASE-NPO-14501-1]	c 35	N80-18357
[NASA-CASE-NPO-14022-1]	c 32	N78-31321	Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths			Frequency-scanning particle size spectrometer		
Solar pond			[NASA-CASE-NPO-14525-1]	c 32	N79-19195	[NASA-CASE-NPO-13606-2]	c 35	N80-18364
[NASA-CASE-NPO-13581-2]	c 44	N78-31525	Method and turbine for extracting kinetic energy from a stream of two-phase fluid			Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures		
Non-tracking solar energy collector system			[NASA-CASE-NPO-14130-1]	c 34	N79-20335	[NASA-CASE-NPO-14254-1]	c 36	N80-18372
[NASA-CASE-NPO-13813-1]	c 44	N78-31526	Digital data reformatter/deserializer			Driver for solar cell I-V characteristic plots		
Coal desulfurization process			[NASA-CASE-NPO-13676-1]	c 60	N79-20751	[NASA-CASE-NPO-14096-1]	c 44	N80-18551
[NASA-CASE-NPO-13937-1]	c 44	N78-31527	Acoustic driving of rotor			Method and means for helium/hydrogen ratio measurement by alpha scattering		
Solid propellant motor			[NASA-CASE-NPO-14005-1]	c 71	N79-20827	[NASA-CASE-NPO-14079-1]	c 25	N80-20334
[NASA-CASE-NPO-11458A]	c 20	N78-32179	System and method for obtaining wide screen Schlieren photographs			Satellite personal communications system		
Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil			[NASA-CASE-NPO-14174-1]	c 74	N79-20856	[NASA-CASE-NPO-14480-1]	c 32	N80-20448
[NASA-CASE-NPO-108835-1]	c 27	N78-33228	Seismic vibration source			Velocity servo for continuous scan Fourier interference spectrometer		
Hydrogen-fueled engine			[NASA-CASE-NPO-14112-1]	c 46	N79-22679	[NASA-CASE-NPO-14093-1]	c 35	N80-20563
[NASA-CASE-NPO-13763-1]	c 44	N78-33526	Underwater seismic source			Portable heatable container		
Plural output optometric sample cell and analysis system			[NASA-CASE-NPO-14255-1]	c 46	N79-23555	[NASA-CASE-NPO-14237-1]	c 44	N80-20808
[NASA-CASE-NPO-10233-1]	c 74	N78-33913	Resolution enhanced sound detecting apparatus			Dual band combiner for horn antenna		
Portable electrophoresis apparatus using minimum electrolyte			[NASA-CASE-NPO-14134-1]	c 71	N79-23753	[NASA-CASE-NPO-14519-1]	c 32	N80-23524
[NASA-CASE-NPO-13274-1]	c 25	N79-10163	Phase conjugation method and apparatus for an active retrodirective antenna array			Passive intrusion detection system		
Automatic communication signal monitoring system			[NASA-CASE-NPO-13641-1]	c 32	N79-24210	[NASA-CASE-NPO-13804-1]	c 33	N80-23559
[NASA-CASE-NPO-13941-1]	c 32	N79-10262	Module failure isolation circuit for paralleled inverters			Method and apparatus for Doppler frequency modulation of radiation		
Surface roughness measuring system			[NASA-CASE-NPO-14000-1]	c 33	N79-24254	[NASA-CASE-NPO-14524-1]	c 32	N80-24510
[NASA-CASE-NPO-13862-1]	c 35	N79-10391				Method of mitigating titanium impurities effects in p-type silicon material for solar cells		
Vehicular impact absorption system						[NASA-CASE-NPO-14635-1]	c 44	N80-24744
[NASA-CASE-NPO-14014-1]	c 37	N79-10420						

Geological assessment probe [NASA-CASE-NPO-14558-1]	c 46	N80-24906	Stark effect spectrophone for continuous absorption spectra monitoring [NASA-CASE-NPO-15102-1]	c 25	N81-25159	Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser [NASA-CASE-NPO-15021-1]	c 36	N83-10417
Cooled echelle grating spectrometer [NASA-CASE-NPO-14372-1]	c 35	N80-26635	Hot gas engine with dual crankshafts [NASA-CASE-NPO-14221-1]	c 37	N81-25370	Thermal reactor [NASA-CASE-NPO-14369-1]	c 44	N83-10501
Simultaneous muscle force and displacement transducer [NASA-CASE-NPO-14212-1]	c 52	N80-27072	Sandblasting nozzle [NASA-CASE-NPO-13823-1]	c 37	N81-25371	Enhancement of in vitro quayule propagation [NASA-CASE-NPO-15213-1]	c 51	N83-17045
Miniature cyclotron resonance ion source using small permanent magnet [NASA-CASE-NPO-14324-1]	c 72	N80-27163	Photomechanical transducer [NASA-CASE-NPO-14363-1]	c 39	N81-25400	Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar [NASA-CASE-NPO-14998-1]	c 32	N83-18975
Silicone containing solid propellant [NASA-CASE-NPO-14477-1]	c 28	N80-28536	Underground mineral extraction [NASA-CASE-NPO-14140-1]	c 43	N81-26509	Synchronized voltage contrast display analysis system [NASA-CASE-NPO-14567-1]	c 33	N83-18996
System for slicing silicon wafers [NASA-CASE-NPO-14406-1]	c 37	N80-29703	CCD correlated quadruple sampling processor [NASA-CASE-NPO-14426-1]	c 33	N81-27396	Broadband optical radiation detector [US-PATENT-4,262,198]	c 74	N83-19597
Induced junction solar cell and method of fabrication [NASA-CASE-NPO-13786-1]	c 44	N80-29835	Terminal guidance sensor system [NASA-CASE-NPO-14521-1]	c 37	N81-27519	Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent [NASA-CASE-NPO-14857-1]	c 27	N83-19900
Interferometric locating system [NASA-CASE-NPO-14173-1]	c 04	N80-32359	Medical diagnosis system and method with multispectral imaging [NASA-CASE-NPO-14402-1]	c 52	N81-27783	Thin wire pointing method [NASA-CASE-NPO-15789-1]	c 31	N83-19947
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same [NASA-CASE-NPO-13137-1]	c 27	N80-32514	High-speed multiplexing of keyboard data inputs [NASA-CASE-NPO-14554-1]	c 60	N81-27814	Clutter free synthetic aperture radar correlator [NASA-CASE-NPO-14035-1]	c 32	N83-19968
Prepolymer dianhydrides [NASA-CASE-NPO-13899-1]	c 27	N80-32515	Coal desulfurization [NASA-CASE-NPO-14272-1]	c 25	N81-33246	Controlled in situ etch-back [NASA-CASE-NPO-15625-1]	c 76	N83-20789
System for plotting subsoil structure and method thereof [NASA-CASE-NPO-14191-1]	c 31	N80-32584	Method and apparatus for producing concentric hollow spheres [NASA-CASE-NPO-14596-1]	c 31	N81-33319	Stabilized lanthanum sulphur compounds [NASA-CASE-NPO-16135-1]	c 25	N83-24572
Support assembly for cryogenically coolable low-noise choke waveguide [NASA-CASE-NPO-14253-1]	c 32	N80-32605	Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress [NASA-CASE-NPO-14316-1]	c 33	N81-33404	Mobile sampler for use in acquiring samples of terrestrial atmospheric gases [NASA-CASE-NPO-15220-1]	c 45	N83-25217
Stark cell optoacoustic detection of constituent gases in sample [NASA-CASE-NPO-14143-1]	c 25	N81-14015	Optical gyroscope system [NASA-CASE-NPO-14258-1]	c 35	N81-33448	System and method for moving a probe to follow movements of tissue [NASA-CASE-NPO-15197-1]	c 52	N83-25346
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer [NASA-CASE-NPO-14001-1]	c 27	N81-14076	Head for high speed spinner having a vacuum chuck [NASA-CASE-NPO-15227-1]	c 37	N81-33482	Waveguide cooling system [NASA-CASE-NPO-15401-1]	c 32	N83-27085
Frequency translating phase conjugation circuit for active retrodirective antenna array [NASA-CASE-NPO-14536-1]	c 32	N81-14185	Fluidized bed coal combustion reactor [NASA-CASE-NPO-14273-1]	c 25	N82-11144	Particle analyzing method and apparatus [NASA-CASE-NPO-15292-1]	c 35	N83-27184
Precise RF timing signal distribution to remote stations [NASA-CASE-NPO-14749-1]	c 32	N81-14186	Scriber for silicon wafers [NASA-CASE-NPO-15539-1]	c 37	N82-11469	Hydrodesulfurization of chlorinated coal [NASA-CASE-NPO-15304-1]	c 25	N83-31743
Base drive for paralleled inverter systems [NASA-CASE-NPO-14163-1]	c 33	N81-14220	Sewage sludge additive [NASA-CASE-NPO-13877-1]	c 45	N82-11634	Method and apparatus for producing gas-filled hollow spheres [NASA-CASE-NPO-14596-3]	c 31	N83-31896
Low cost cryostat [NASA-CASE-NPO-14513-1]	c 35	N81-14287	Real-time multiple-look synthetic aperture radar processor for spacecraft applications [NASA-CASE-NPO-14054-1]	c 32	N82-12297	Cycling Joule Thomson refrigerator [NASA-CASE-NPO-15251-1]	c 31	N83-31897
Power control for hot gas engines [NASA-CASE-NPO-14220-1]	c 37	N81-14318	Microwave limb sounder [NASA-CASE-NPO-14544-1]	c 46	N82-12685	Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths [NASA-CASE-NPO-14525-2]	c 32	N83-31918
Viscoelastic cationic polymers containing the urethane linkage [NASA-CASE-NPO-10830-1]	c 27	N81-15104	Faraday rotation measurement method and apparatus [NASA-CASE-NPO-14839-1]	c 35	N82-15381	Method and device for detection of a substance [NASA-CASE-NPO-14940-1]	c 33	N83-31954
Continuous coal processing method [NASA-CASE-NPO-13758-2]	c 31	N81-15154	Solar heated fluidized bed gasification system [NASA-CASE-NPO-15071-1]	c 44	N82-16475	System for monitoring physical characteristics of fluids [NASA-CASE-NPO-15400-1]	c 34	N83-31993
Speed control device for a heavy duty shaft [NASA-CASE-NPO-14170-1]	c 37	N81-15364	Method for shaping and aiming narrow beams [NASA-CASE-NPO-14632-1]	c 32	N82-18443	Cloud cover sensor [NASA-CASE-NPO-14936-1]	c 47	N83-32232
Redundant operation of counter modules [NASA-CASE-NPO-14162-1]	c 60	N81-15706	Fiber optic transmission line stabilization apparatus and method [NASA-CASE-NPO-15036-1]	c 74	N82-19029	Distributed multiport memory architecture [NASA-CASE-NPO-15342-1]	c 60	N83-32342
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith [NASA-CASE-NPO-13530-1]	c 25	N81-17187	Suspension system for a wheel rolling on a flat track [NASA-CASE-NPO-14395-1]	c 37	N82-21587	Acoustic system for material transport [NASA-CASE-NPO-15453-1]	c 71	N83-32515
Molten salt pyrolysis of latex [NASA-CASE-NPO-14315-1]	c 27	N81-17261	Echo tracker/range finder for radars and sonars [NASA-CASE-NPO-14361-1]	c 32	N82-23376	System for controlled acoustic rotation of objects [NASA-CASE-NPO-15522-1]	c 71	N83-32516
Phase-angle controller for Stirling engines [NASA-CASE-NPO-14388-1]	c 37	N81-17432	Constant magnification optical tracking system [NASA-CASE-NPO-14813-1]	c 74	N82-24072	Mixed polyvalent-monovalent metal coating for carbon-graphite fibers [NASA-CASE-NPO-14987-1]	c 24	N83-33950
Solar energy receiver for a Stirling engine [NASA-CASE-NPO-14619-1]	c 44	N81-17518	Pulse switching for high energy lasers [NASA-CASE-NPO-14556-1]	c 33	N82-24418	Antenna grout replacement system [NASA-CASE-NPO-15202-1]	c 27	N83-34043
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object [NASA-CASE-NPO-14219-1]	c 74	N81-17886	Hermetic seal for a shaft [NASA-CASE-NPO-15115-1]	c 37	N82-24493	Sphere forming method and apparatus [NASA-CASE-NPO-15070-1]	c 31	N83-35176
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect [NASA-CASE-NPO-14657-1]	c 74	N81-17887	Instrumentation for sensing moisture content of material using a transient thermal pulse [NASA-CASE-NPO-15494-1]	c 35	N82-25484	Resonant isolator for maser amplifier [NASA-CASE-NPO-15201-1]	c 36	N83-35350
Interferometer [NASA-CASE-NPO-14502-1]	c 74	N81-17888	Automotive absorption air conditioner utilizing solar and motor waste heat [NASA-CASE-NPO-15183-1]	c 44	N82-26776	Acoustic bubble removal method [NASA-CASE-NPO-15334-1]	c 71	N83-35781
Ion-exchange hollow fibers [NASA-CASE-NPO-13309-1]	c 25	N81-19244	Efficiency of silicon solar cells containing chromium [NASA-CASE-NPO-15179-1]	c 44	N82-26777	Method of increasing minority carrier lifetime in silicon web or the like [NASA-CASE-NPO-15530-1]	c 76	N83-35888
Elimination of current spikes in buck power converters [NASA-CASE-NPO-14505-1]	c 33	N81-19393	Acoustic levitation methods and apparatus [NASA-CASE-NPO-15562-1]	c 71	N82-27086	Acoustic suspension system [NASA-CASE-NPO-15435-1]	c 71	N83-36846
Copper doped polycrystalline silicon solar cell [NASA-CASE-NPO-14670-1]	c 44	N81-19558	Thermochemical generation of hydrogen [NASA-CASE-NPO-15015-1]	c 25	N82-28368	Optical fiber tactile sensor [NASA-CASE-NPO-15375-1]	c 74	N84-11921
System and method for character recognition [NASA-CASE-NPO-11337-1]	c 74	N81-19896	Method of forming frozen spheres in a force-free drop tower [NASA-CASE-NPO-14845-1]	c 27	N82-28442	Photoelectrochemical electrodes [NASA-CASE-NPO-15458-1]	c 25	N84-12262
X-ray position detector [NASA-CASE-NPO-12087-1]	c 74	N81-19898	High power metallic halide laser [NASA-CASE-NPO-14782-1]	c 36	N82-28616	Method and apparatus for minimizing convection during crystal growth from solution [NASA-CASE-NPO-15811-1]	c 76	N84-12968
Controller for computer control of brushless dc motors [NASA-CASE-NPO-13970-1]	c 33	N81-20352	Method of Fabricating Schottky Barrier solar cell [NASA-CASE-NPO-13689-4]	c 44	N82-28780	Pressure letdown method and device for coal conversion systems [NASA-CASE-NPO-15100-1]	c 44	N84-14583
Multifunctional transducer [NASA-CASE-NPO-14329-1]	c 52	N81-20703	Coal desulfurization by aqueous chlorination [NASA-CASE-NPO-14902-1]	c 25	N82-29371	Supercritical multicomponent solvent coal extraction [NASA-CASE-NPO-15767-1]	c 23	N84-16255
Polymeric compositions and their method of manufacture [NASA-CASE-NPO-10424-1]	c 27	N81-24258	Control means for a solid state crossbar switch [NASA-CASE-NPO-15066-1]	c 33	N82-29538	Electrodes for solid state devices [NASA-CASE-NPO-15161-1]	c 33	N84-16456
Low current linearization of magnetic amplifier for dc transducer [NASA-CASE-NPO-14617-1]	c 33	N81-24338	Coherently pulsed laser source [NASA-CASE-NPO-15111-1]	c 36	N82-29589	Contactless pellet fabrication [NASA-CASE-NPO-15592-1]	c 71	N84-16940
			Solid electrolyte cell [NASA-CASE-NPO-15269-1]	c 44	N82-29710	Ion beam accelerator system [NASA-CASE-NPO-15547-1]	c 72	N84-16959
			Electromigration process for the purification of molten silicon during crystal growth [NASA-CASE-NPO-14831-1]	c 76	N82-30105	Apparatus and method for destructive removal of particles contained in flowing fluid [NASA-CASE-NPO-15426-1]	c 35	N84-17555
			CAT altitude avoidance system [NASA-CASE-NPO-15351-1]	c 06	N83-10040			

Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012

Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081

Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203

Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589

Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766

Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767

Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769

System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792

Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113

Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428

Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493

State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596

Carbon granule probe microphone for leak detection
[NASA-CASE-NPO-16027-1] c 35 N85-21597

Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631

Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650

Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105

Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139

Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396

Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005

Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142

Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264

Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282

Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1-CU] c 71 N85-29693

Optical fiber coupling method and apparatus
[NASA-CASE-NPO-15464-1] c 74 N85-29749

Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187

Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474

Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475

Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765

Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922

Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327

Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-2] c 35 N85-34373

Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605

Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801

Neighborhood comparison operator
[NASA-CASE-NPO-16464-1-CU] c 60 N86-24224

High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N86-27270

Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706

Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223

Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863

Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943

Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301

Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304

Real-time image difference detection using a polarization rotation spatial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305

Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676

Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713

Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846

Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169

Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577

Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750

Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261

Acoustic controlled rotation and orientation
[NASA-CASE-NPO-16995-1-CU] c 71 N90-12289

Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974

Solid state electrical switch employing materials with reversible phase transistors
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010

VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061

Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769

Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700

Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583

Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384

Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518

High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685

New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880

Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016

VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N90-27040

Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070

Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239

Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268

Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385

Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488

Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517

Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518

Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594

Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595

Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621

Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622

Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658

Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724

Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767

Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N91-13888

Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
 [NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
 Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
 [NASA-CASE-NPO-17820-1-CU] c 04 N91-14321
 High temperature refractory member with radiation emissive overcoat
 [NASA-CASE-NPO-17122-1-CU] c 27 N91-14489
 Trellis coded modulation for transmission over fading mobile satellite channel
 [NASA-CASE-NPO-16904-2-CU] c 32 N91-14523
 Organic cathode for a secondary battery
 [NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
 Copper chloride cathode for a secondary battery
 [NASA-CASE-NPO-17640-1-CU] c 33 N91-14538
 Improved high power/high frequency inductor
 [NASA-CASE-NPO-17830-1-CU] c 33 N91-14539
 Millimeter-wave monolithic diode-grid frequency multiplier
 [NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
 Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
 [NASA-CASE-NPO-16989-1-CU] c 35 N91-14587
 Field induced gap infrared detector
 [NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
 Multi-fingered robotic hand
 [NASA-CASE-NPO-15959-2] c 37 N91-14616
 Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
 [NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
 Distributed computing system with dual independent communications paths between computers and employing split tokens
 [NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
 Acoustic positioning and orientation prediction
 [NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
 Acoustic transducer apparatus with reduced thermal conduction
 [NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
 Surface modification using low energy ground state ion beams
 [NASA-CASE-NPO-17498-1-CU] c 72 N91-14813
 Energy efficient continuous flow ash lockhopper
 [NASA-CASE-NPO-16985-1-CU] c 31 N91-15423
 Remote object configuration/orientation determination
 [NASA-CASE-NPO-17436-1-CU] c 35 N91-15512
 Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
 [NASA-CASE-NPO-17282-1-CU] c 36 N91-15528
 Ribbon growing method and apparatus
 [NASA-CASE-NPO-16306-1-CU] c 76 N91-15898
 Torque sensor having a spoked sensor element support structure
 [NASA-CASE-NPO-17461-1-CU] c 35 N91-17350
 Cladding for transverse-pumped solid-state laser
 [NASA-CASE-NPO-17355-1-CU] c 36 N91-17360
 Laterally stacked Schottky diodes for infrared sensor applications
 [NASA-CASE-NPO-17426-1-CU] c 33 N91-21434
 Method and apparatus for configuration control of redundant robots
 [NASA-CASE-NPO-17801-1-CU] c 37 N91-21544
 System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
 [NASA-CASE-NPO-17937-1-CU] c 43 N91-21621
 Microwave temperature profiler for clear air turbulence prediction
 [NASA-CASE-NPO-18115-1-CU] c 47 N91-23662
 Obstacle avoidance for redundant robots using configuration control
 [NASA-CASE-NPO-17852-1-CU] c 63 N91-23783
 Real time pre-detection dynamic range compression
 [NASA-CASE-NPO-18098-1-CU] c 74 N91-23890
 Doppler-corrected differential detection system
 [NASA-CASE-NPO-16987-1-CU] c 32 N91-25316
 Phase ambiguity resolution for offset QPSK modulation systems
 [NASA-CASE-NPO-17853-1-CU] c 32 N91-25318
 Fluid-loop reaction system
 [NASA-CASE-NPO-17204-1-CU] c 34 N91-25380
 Dynamic resource allocation scheme for distributed heterogeneous computer systems
 [NASA-CASE-NPO-17197-1-CU] c 62 N91-25693
 High-gain AlGaAs/GaAs double heterojunction Darling phototransistors for optical neural networks
 [NASA-CASE-NPO-18101-1-CU] c 74 N91-25841
 Method and apparatus for second-rank tensor generation
 [NASA-CASE-NPO-17512-1-CU] c 74 N91-26918
 Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
 [NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

Flexible thermal apparatus for mounting of thermoelectric cooler
 [NASA-CASE-NPO-17806-1-CU] c 31 N91-27385
 Multiple symbol differential detection
 [NASA-CASE-NPO-17896-1-CU] c 32 N91-27439
 Metal chloride cathode for a battery
 [NASA-CASE-NPO-17809-1-CU] c 33 N91-27478
 Fiber optic frequency transfer link
 [NASA-CASE-NPO-17703-1-CU] c 74 N91-27957
 Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
 [NASA-CASE-NPO-17678-1-CU] c 76 N91-28014
 Composite flexible blanket insulation
 [NASA-CASE-NPO-11907-1-NP] c 24 N91-31236
 A universal computer control system for motors
 [NASA-CASE-NPO-17134-1-CU] c 33 N91-31528
 Asymmetric soft-error resistant memory
 [NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
 Synchronized computational architecture for generalized bilateral control of robot arms
 [NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
 Method and apparatus for producing microshells
 [NASA-CASE-NPO-16635-1-CU] c 31 N91-32240
 Quantum well, beam deflecting surface emitting lasers
 [NASA-CASE-NPO-18243-1-CU] c 36 N91-32489
 Teleoperator control system
 [NASA-CASE-NPO-18116-1-CU] c 37 N91-32509
 A generalized compliant motion primitive
 [NASA-CASE-NPO-18134-1-CU] c 37 N91-32510
 Highly parallel computer architecture for robotic computation
 [NASA-CASE-NPO-17632-1-CU] c 60 N91-32805
 Analog hardware for learning neural networks
 [NASA-CASE-NPO-17664-1-CU] c 62 N91-32852
 Method and apparatus for phasing segmented mirror arrays
 [NASA-CASE-NPO-18095-1-CU] c 74 N91-32923
 Feedback controlled optics with wavefront compensation
 [NASA-CASE-NPO-18194-1-CU] c 74 N91-32924
 Optoelectronic associative memory
 [NASA-CASE-NPO-18278-1-CU] c 74 N91-32925
 Integrated filter and detector array for spectral imaging
 [NASA-CASE-NPO-18317-1-CU] c 74 N91-32926
 Regenerative Cu/La zeolite supported desulfurizing sorbents
 [NASA-CASE-NPO-17480-1-CU] c 25 N92-10073
 Method and apparatus for frequency spectrum analysis
 [NASA-CASE-NPO-17759-1-CU] c 32 N92-10125
 Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
 [NASA-CASE-NPO-17836-1-CU] c 32 N92-10126
 Formation of self-aligned guard rings for monolithic Schottky-barrier diode arrays
 [NASA-CASE-NPO-17734-1-CU] c 33 N92-10146
 Acoustic device and method for measuring gas densities
 [NASA-CASE-NPO-18155-1-CU] c 71 N92-10609
 Passivation of high temperature superconductors
 [NASA-CASE-NPO-17949-1-CU] c 76 N92-10681
 Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
 [NASA-CASE-NPO-18007-1-CU] c 74 N92-11791
 Integrated, non-volatile, high-speed analog random access memory
 [NASA-CASE-NPO-17998-1-CU] c 60 N92-12438
 Multicomponent gas sorption Joule-Thomson refrigeration
 [NASA-CASE-NPO-17569-1-CU] c 31 N92-15203
 Network of dedicated processors for finding lowest-cost map path
 [NASA-CASE-NPO-17716-1-CU] c 62 N92-15620
 Silicon containing electroconductive polymers and structures made therefrom
 [NASA-CASE-NPO-17826-1-CU] c 27 N92-16121
 Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
 [NASA-CASE-NPO-17573-2-CU] c 33 N92-16196
 Thermal power transfer system using applied potential difference to sustain operating pressure difference
 [NASA-CASE-NPO-18034-1-CU] c 44 N92-16457
 All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
 [NASA-CASE-NPO-17612-1-CU] c 74 N92-16808
 Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
 [NASA-CASE-NPO-18028-1-CU] c 74 N92-16809
 Three-stage sorption type cryogenic refrigeration system and method employing heat regeneration
 [NASA-CASE-NPO-18366-1-CU] c 31 N92-17674

Real-time edge-enhanced optical correlator
 [NASA-CASE-NPO-18379-1-CU] c 74 N92-17675
 Multiperiod-grating surface-emitting lasers
 [NASA-CASE-NPO-17763-1-CU] c 36 N92-17862
 Near real-time stereo vision system
 [NASA-CASE-NPO-18593-1-CU] c 74 N92-17864
 Method for non-destructive estimation of waveguide directional coupler dimensions
 [NASA-CASE-NPO-18454-1-CU] c 33 N92-17865
 Neural-network dedicated processor for solving competitive assignment problems
 [NASA-CASE-NPO-17781-1-CU] c 60 N92-17884
 Wide field strip-imaging optical system
 [NASA-CASE-NPO-18146-1-CU] c 74 N92-17892
 High level language-based robotic control system
 [NASA-CASE-NPO-17918-2-CU] c 63 N92-17895
 Self-collimated unstable resonator semiconductor laser
 [NASA-CASE-NPO-18386-1-CU] c 36 N92-17899
 Transformerless DC-DC voltage amplifier with optically isolated switching devices
 [NASA-CASE-NPO-17994-1-CU] c 33 N92-17907
 Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
 [NASA-CASE-NPO-17736-2-CU] c 24 N92-18561
 Device for mechanically stabilizing web ribbon buttons during growth initiation
 [NASA-CASE-NPO-17074-2-CU] c 76 N92-21499
 Digital carrier demodulator employing components working beyond normal limits
 [NASA-CASE-NPO-17628-1-CU] c 32 N92-21712
 Adjustable steam producing flexible orifice independent of fluid pressure
 [NASA-CASE-NPO-17625-1-CU] c 34 N92-21724
 Analog hardware for delta-backpropagation neural networks
 [NASA-CASE-NPO-17564-1-CU] c 32 N92-22033
 Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
 [NASA-CASE-NPO-17913-1-CU] c 74 N92-22034
 Growth of III-V films by control of MBE growth front stoichiometry
 [NASA-CASE-NPO-17724-1-CU] c 76 N92-22035
 Bilevel shared control for teleoperators
 [NASA-CASE-NPO-17800-1-CU] c 37 N92-22036
 Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
 [NASA-CASE-NPO-17812-2-CU] c 76 N92-22040
 Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
 [NASA-CASE-NPO-17812-3-CU] c 76 N92-22041
 Electrorepulsive actuator
 [NASA-CASE-NPO-17684-1-CU] c 33 N92-22042
Johns Hopkins Univ., Laurel, MD.
 Telemetry synchronizer
 [NASA-CASE-GSC-11868-1] c 17 N76-22245
Johns Hopkins Univ., Silver Spring, MD.
 Open loop digital frequency multiplier
 [NASA-CASE-MS-12709-1] c 33 N77-24375

K

Kansas Univ., Lawrence.
 Airplane takeoff and landing performance monitoring system
 [NASA-CASE-LAR-13734-1-CU] c 09 N90-20096
Kelsey-Hayes Co., Romulus, MI.
 Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
 [NASA-CASE-XMF-00923] c 28 N70-36802
Keltec Industries, Inc., Alexandria, VA.
 Unfurlable structure including coiled strips thrust launched upon tension release Patent
 [NASA-CASE-HQN-00937] c 07 N71-28979
Kentucky Univ., Lexington.
 Apparatus for determining changes in limb volume
 [NASA-CASE-MS-18759-1] c 52 N83-27578
Kinologic Corp., Pasadena, CA.
 Excitation and detection circuitry for a flux responsive magnetic head
 [NASA-CASE-XNP-04183] c 09 N69-24329
 Tape guidance system and apparatus for the provision thereof Patent
 [NASA-CASE-XNP-09453] c 08 N71-19420
 Incremental tape recorder and data rate converter Patent
 [NASA-CASE-XNP-02778] c 08 N71-22710
Kollsman Instrument Corp., Elmhurst, NY.
 Wide angle long eye relief eyepiece Patent
 [NASA-CASE-XMS-06056-1] c 23 N71-24857
Kollsman Instrument Corp., Syosset, NY.
 Digital modulator and demodulator Patent
 [NASA-CASE-ERC-10041] c 08 N71-29138

Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393
Konigsberg Instruments, Inc., Pasadena, CA.
Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c 17 N76-29347
Korad Corp., New York, NY.
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400

L

Life Systems, Inc., Beachwood, OH.
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
Ling-Temco-Vought, Inc., Dallas, TX.
Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
Little (Arthur D.), Inc., Cambridge, MA.
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
Process for spinning flame retardant elastomeric compositions
[NASA-CASE-MSC-14331-3] c 27 N78-32262
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484
Litton Industries, Beverly Hills, CA.
Life support system
[NASA-CASE-MSC-12411-1] c 05 N72-20096
Litton Industries, College Park, MD.
Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
Litton Industries, San Carlos, CA.
Very high intensity light source using a cathode ray tube
[NASA-CASE-XNP-01296] c 33 N75-27250
Litton Systems, Inc., Minneapolis, MN.
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
Lockheed Aircraft Corp., Burbank, CA.
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Lockheed-California Co., Burbank.
Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563
Multistage aerospace craft
[NASA-CASE-XMF-02263] c 05 N74-10907
Lockheed Electronics Co., Houston, TX.
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411
Data storage, image tube type
[NASA-CASE-MSC-14053-1] c 60 N74-12888
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479
Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486

Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
Lockheed Engineering and Management Services Co., Inc., Las Cruces, NM.
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
Lockheed Missiles and Space Co., Huntsville, AL.
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
Lockheed Missiles and Space Co., Sunnyvale, CA.
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Emergency earth orbital escape device
[NASA-CASE-MSC-13281-1] c 31 N72-18859
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
Whole body measurement systems
[NASA-CASE-MSC-13972-1] c 52 N74-10975
Four phase logic systems
[NASA-CASE-MSC-14240-1] c 33 N75-14957
Strain arrestor plate for fused silica tile
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Medical subject monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
Lockheed Propulsion Co., Redlands, CA.
Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534

LTV Aerospace Corp., Dallas, TX.
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
LTV Aerospace Corp., Hampton, VA.
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

M

Macon-Rust Co., Lexington, KY.
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
Marlin-Rockwell Corp., Jamestown, NY.
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
Marquardt Corp., Van Nuys, CA.
Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MSC-12139-1] c 28 N71-14058
Multislit film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132

Martin Marietta Aerospace, Denver, CO.
Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
Pulse transducer with artifact signal attenuator
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Urine collection apparatus
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Martin Marietta Corp., Baltimore, MD.
Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589
Emergency escape system Patent
[NASA-CASE-KKS-02342] c 05 N71-11199
Martin Marietta Corp., Denver, CO.
Flexible/rigidifiable cable assembly
[NASA-CASE-MSC-13512-1] c 15 N72-22485
Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230
Low distortion automatic phase control circuit
[NASA-CASE-MFS-21671-1] c 33 N74-22885
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
Filter regeneration systems
[NASA-CASE-MSC-14273-1] c 34 N75-33342
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
Maryland Univ., College Park.
Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
Massachusetts Inst. of Tech., Cambridge.
Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961
Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389
Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
Vapor deposition apparatus
[NASA-CASE-HQN-10462] c 25 N75-29192
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504
MB Associates, San Ramon, CA.
Hypervelocity gun
[NASA-CASE-XLE-03186-1] c 09 N79-21084
McDonnell Aircraft Co., Saint Louis, MO.
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
Apparatus for welding sheet material
[NASA-CASE-XMS-01330] c 37 N75-27376
Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393

Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
McDonnell-Douglas Astronautics Co., Huntington Beach, CA.
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374
McDonnell-Douglas Astronautics Co., Santa Monica, CA.
New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
McDonnell-Douglas Astronautics Co., Saint Louis, MO.
Passive propellant system
[NASA-CASE-MFS-23642-2] c 20 N78-27176
McDonnell-Douglas Corp., Huntington Beach, CA.
Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463
Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
Thrust-isolating mounting
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
Phase-locked servo system
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
Device for use in loading tension members
[NASA-CASE-MFS-21488-1] c 14 N75-24794
McDonnell-Douglas Corp., Long Beach, CA.
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
McDonnell-Douglas Corp., Newport Beach, CA.
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
McDonnell-Douglas Corp., Santa Monica, CA.
Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643
Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
Polymers of perfluorobutadiene and method of manufacture
[NASA-CASE-NPO-10863-2] c 06 N72-25152
Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions
[NASA-CASE-NPO-12122-1] c 24 N76-14203
Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
McDonnell-Douglas Corp., Saint Louis, MO.
Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Medical Sciences Research Foundation, San Francisco, CA.
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270
Mellon Inst., Pittsburgh, PA.
Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781
Melpar, Inc., Falls Church, VA.
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Metcom, Inc., Salem, MA.
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
Methodist Hospital, Houston, TX.
Snap-in compressible biomedical electrode
[NASA-CASE-MS-14623-1] c 52 N77-28717

Microwave Electronics Corp., Palo Alto, CA.
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
Microwave Research Corp., North Andover, MA.
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
Midwest Research Inst., Kansas City, MO.
Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
Milliken (D. B.) Co., Arcadia, CA.
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Minneapolis-Honeywell Regulator Co., MN.
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Modern Machine and Tool Co., Newport News, VA.
Means for accommodating large overstrain in lead wires
[NASA-CASE-LAR-10168-1] c 33 N74-22865
Monsanto Co., Saint Louis, MO.
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Monsanto Research Corp., Dayton, OH.
Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphthalic anhydrides
[NASA-CASE-MFS-22356-1] c 23 N75-30256
Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268
Motorola, Inc., Phoenix, AZ.
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Method and apparatus for quadruphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
Motorola, Inc., Scottsdale, AZ.
Sealed cabinetry Patent
[NASA-CASE-MS-12168-1] c 09 N71-18600
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Phase modulator Patent
[NASA-CASE-MS-13201-1] c 07 N71-28429
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
Quadruphase demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

N

National Academy of Sciences - National Research Council, Washington, DC.

Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
Stagnation pressure probe
[NASA-CASE-LAR-11139-1] c 35 N74-32878
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
Method of preparing water purification membranes
[NASA-CASE-ARC-10643-1] c 25 N75-12087

Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Integrable power gyrator
[NASA-CASE-MFS-22342-1] c 33 N75-30428
Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931
Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433
Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454
Length controlled stabilized mode-lock Nd:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
Method of growing composites of the type exhibiting the Soret effect
[NASA-CASE-MFS-22926-1] c 24 N77-27187
Method and apparatus for splitting a beam of energy
[NASA-CASE-GSC-12083-1] c 73 N78-32848
Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Autonomous navigation system
[NASA-CASE-ARC-11257-1] c 04 N81-21047
Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
Niral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
Synthesis of 2,4,8,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187
Fire-resistant phosphorus containing polymides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
Metal (2,4,4',4') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
National Aeronautics and Space Administration, Washington, DC.
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199

Two color horizon sensor [NASA-CASE-ERC-10174]	c 14	N72-25409	Temperature compensated solid state differential amplifier Patent			Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent		
Ultraviolet atomic emission detector [NASA-CASE-HQN-10756-1]	c 14	N72-25428	[NASA-CASE-XAC-00435]	c 09	N70-35440	[NASA-CASE-XAC-05422]	c 04	N71-23185
Optical pump and driver system for lasers [NASA-CASE-ERC-10283]	c 16	N72-25485	High speed low level electrical stepping switch Patent			Feedback integrator with grounded capacitor Patent		
Clear air turbulence detector [NASA-CASE-ERC-10081]	c 14	N72-28437	[NASA-CASE-XAC-00060]	c 09	N70-39915	[NASA-CASE-XAC-10607]	c 10	N71-23669
Head-up attitude display [NASA-CASE-ERC-10392]	c 21	N73-14692	Analog-to-digital conversion system Patent			Floating two force component measuring device Patent		
System for indicating direction of intruder aircraft [NASA-CASE-ERC-10226-1]	c 14	N73-16483	[NASA-CASE-XAC-00404]	c 08	N70-40125	[NASA-CASE-XAC-04885]	c 14	N71-23790
Aircraft control system [NASA-CASE-ERC-10439]	c 02	N73-19004	Null-type vacuum microbalance Patent			Control device Patent		
Display system [NASA-CASE-ERC-10350]	c 14	N73-20474	[NASA-CASE-XAC-00472]	c 15	N70-40180	[NASA-CASE-XAC-10019]	c 15	N71-23809
Method and apparatus for measuring solar activity and atmospheric radiation effects [NASA-CASE-ERC-10276]	c 14	N73-26432	Thermo-protective device for balances Patent			Means for suppressing or attenuating bending motion of elastic bodies Patent		
Doppler shift system [NASA-CASE-HQN-10740-1]	c 72	N74-19310	[NASA-CASE-XAC-00648]	c 14	N70-40400	[NASA-CASE-XAC-05632]	c 32	N71-23971
Auditory display for the blind [NASA-CASE-HQN-10832-1]	c 71	N74-21014	Three-axis controller Patent			Device for measuring pressure Patent		
Laser system with an antiresonant optical ring [NASA-CASE-HQN-10844-1]	c 36	N75-19653	[NASA-CASE-XAC-01404]	c 05	N70-41581	[NASA-CASE-XAC-04458]	c 14	N71-24232
Physical correction filter for improving the optical quality of an image [NASA-CASE-HQN-10542-1]	c 74	N75-25706	Electric arc device for heating gases Patent			Transducer circuit and catheter transducer Patent		
Folding structure fabricated of rigid panels [NASA-CASE-XHQ-02146]	c 18	N75-27040	[NASA-CASE-XAC-00319]	c 25	N70-41628	[NASA-CASE-ARC-10132-1]	c 09	N71-24597
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility [NASA-CASE-HQN-10069]	c 33	N75-27251	Dynamic sensor Patent			Skeletal stressing method and apparatus Patent		
Vapor deposition apparatus [NASA-CASE-HQN-10462]	c 25	N75-29192	[NASA-CASE-XAC-02877]	c 14	N70-41681	[NASA-CASE-ARC-10100-1]	c 05	N71-24738
Resistive anode image converter [NASA-CASE-HQN-10876-1]	c 33	N76-27473	Universal pilot restraint suit and body support therefor Patent			Modified polyurethane foams for fuel-fire Patent		
Rechargeable battery which combats shape change of the zinc anode [NASA-CASE-HQN-10862-1]	c 44	N76-29699	[NASA-CASE-XAC-00405]	c 05	N70-41819	[NASA-CASE-ARC-10098-1]	c 06	N71-24739
System and method for tracking a signal source [NASA-CASE-HQN-10880-1]	c 17	N78-17140	Proportional controller Patent			Deep space monitor communication satellite system Patent		
Non-equilibrium radiation nuclear reactor [NASA-CASE-HQN-10841-1]	c 73	N78-19920	[NASA-CASE-XAC-03392]	c 03	N70-41954	[NASA-CASE-XAC-06029-1]	c 31	N71-24813
Cooling system for removing metabolic heat from an hermetically sealed spacesuit [NASA-CASE-ARC-11059-1]	c 54	N78-32721	Force transducer Patent			Laser fluid velocity detector Patent		
Safety flywheel [NASA-CASE-HQN-10888-1]	c 44	N79-14527	[NASA-CASE-XAC-01101]	c 14	N70-41957	[NASA-CASE-XAC-10770-1]	c 16	N71-24828
Flow diverter valve and flow diversion method [NASA-CASE-HQN-00573-1]	c 37	N79-33468	Electrode construction Patent			Transient video signal recording with expanded playback Patent		
Glass compositions with a high modulus of elasticity [NASA-CASE-HQN-10274-1]	c 27	N82-29451	[NASA-CASE-ARC-10043-1]	c 05	N71-11193	[NASA-CASE-ARC-10003-1]	c 09	N71-25866
High modulus invert analog glass compositions containing beryllia [NASA-CASE-HQN-10931-2]	c 27	N82-29452	Telemeter adaptable for implanting in an animal Patent			Thermally cycled magnetometer Patent		
Non-toxic invert analog glass compositions of high modulus [NASA-CASE-HQN-10328-2]	c 27	N82-29454	[NASA-CASE-XAC-05706]	c 05	N71-12342	[NASA-CASE-XAC-03740]	c 14	N71-26135
High modulus rare earth and beryllium containing silicate glass compositions [NASA-CASE-HQN-10595-1]	c 27	N82-29455	Gyrator type circuit Patent			Optical machine tool alignment indicator Patent		
High resistance and raised modulus carbon fibers [NASA-TM-76884]	c 24	N85-25436	[NASA-CASE-XAC-10608-1]	c 09	N71-12517	[NASA-CASE-XAC-09489-1]	c 15	N71-26673
National Aeronautics and Space Administration, Ames Research Center, Moffett Field, CA.			Ultraviolet resonance lamp Patent			Energy limiter for hydraulic actuators Patent		
Nonmagnetic thermal motor for a magnetometer [NASA-CASE-XAR-03786]	c 09	N69-21313	[NASA-CASE-ARC-10030]	c 09	N71-12521	[NASA-CASE-ARC-10131-1]	c 15	N71-27754
Balanced bellows spirometer [NASA-CASE-XAR-01547]	c 05	N69-21473	Differential temperature transducer Patent			Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent		
Cryogenic apparatus for measuring the intensity of magnetic fields [NASA-CASE-XAC-02407]	c 14	N69-27423	[NASA-CASE-XAC-00812]	c 14	N71-15598	[NASA-CASE-ARC-10137-1]	c 09	N71-28468
Variable stiffness polymeric damper [NASA-CASE-XAC-11225]	c 14	N69-27486	Multiple circuit switch apparatus with improved pivot actuator structure Patent			Locomotion and restraint aid Patent		
Shock-layer radiation measurement [NASA-CASE-XAC-02970]	c 14	N69-39896	[NASA-CASE-XAC-03777]	c 10	N71-15909	[NASA-CASE-ARC-10153]	c 05	N71-28619
Protective circuit of the spark gap type [NASA-CASE-XAC-08981]	c 09	N69-39897	Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent			Line following servosystem Patent		
Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent [NASA-CASE-XAC-00086]	c 09	N70-33182	[NASA-CASE-XAC-08494]	c 30	N71-15990	[NASA-CASE-XAC-00001]	c 15	N71-28952
Two-plane balance Patent [NASA-CASE-XAC-00073]	c 14	N70-34813	High efficiency multivibrator Patent			Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent		
Centrifuge mounted motion simulator Patent [NASA-CASE-XAC-00399]	c 11	N70-34815	[NASA-CASE-XAC-00942]	c 10	N71-16042	[NASA-CASE-XAC-00048]	c 02	N71-29128
Differential pressure cell Patent [NASA-CASE-XAC-00042]	c 14	N70-34816	Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent			Precision rectifier with FET switching means Patent		
High-temperature, high-pressure spherical segment valve Patent [NASA-CASE-XAC-00074]	c 15	N70-34817	[NASA-CASE-XAC-05695]	c 25	N71-16073	[NASA-CASE-ARC-10101-1]	c 09	N71-33109
Magnetically centered liquid column float Patent [NASA-CASE-XAC-00030]	c 14	N70-34820	Flight craft Patent			Solar cell Patent		
Propeller blade loading control Patent [NASA-CASE-XAC-00139]	c 02	N70-34856	[NASA-CASE-XAC-02058]	c 02	N71-16087	[NASA-CASE-ARC-10050]	c 03	N71-33409
			Three-axis finger tip controller for switches Patent			Phase shift circuit apparatus [NASA-CASE-ARC-10269-1]	c 10	N72-16172
			[NASA-CASE-XAC-02405]	c 09	N71-16089	High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level [NASA-CASE-ARC-10178-1]	c 09	N72-17152
			Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent [NASA-CASE-XAC-05506-1]	c 24	N71-16095	Telemetry actuated switch [NASA-CASE-ARC-10105]	c 09	N72-17153
			Inertial reference apparatus Patent [NASA-CASE-XAC-03107]	c 23	N71-16098	Active RC networks [NASA-CASE-ARC-10020]	c 10	N72-17172
			Fastener apparatus Patent [NASA-CASE-ARC-10140-1]	c 15	N71-17653	Apparatus for automatically stabilizing the attitude of a nonguided vehicle [NASA-CASE-ARC-10134]	c 30	N72-17873
			Stabilization of gravity oriented satellites Patent [NASA-CASE-XAC-01591]	c 31	N71-17729	Method and apparatus for swept-frequency impedance measurements of welds [NASA-CASE-ARC-10176-1]	c 15	N72-21464
			Microwave flow detector Patent [NASA-CASE-ARC-10009-1]	c 15	N71-17822	Space suit having improved waist and torso movement [NASA-CASE-ARC-10275-1]	c 05	N72-22092
			Hypervelocity gun Patent [NASA-CASE-XAC-05902]	c 11	N71-18578	RF controlled solid state switch [NASA-CASE-ARC-10136-1]	c 09	N72-22202
			Nonlinear analog-to-digital converter Patent [NASA-CASE-XAC-04031]	c 08	N71-18594	Wide range dynamic pressure sensor [NASA-CASE-ARC-10263-1]	c 14	N72-22438
			Demodulation system Patent [NASA-CASE-XAC-04030]	c 10	N71-19472	Method and apparatus for measuring the damping characteristics of a structure [NASA-CASE-ARC-10154-1]	c 14	N72-22440
			Phase quadrature-plural channel data transmission system Patent [NASA-CASE-XAC-06302]	c 08	N71-19763	Magnetic position detection method and apparatus [NASA-CASE-ARC-10179-1]	c 21	N72-22619
			Two force component measuring device Patent [NASA-CASE-XAC-04886-1]	c 14	N71-20439	Fluidic proportional thruster system [NASA-CASE-ARC-10106-1]	c 28	N72-22769
			Attitude controls for VTOL aircraft Patent [NASA-CASE-XAC-08972]	c 02	N71-20570	Thermoelectric radiometer utilizing polymer film [NASA-CASE-ARC-10138-1]	c 14	N72-24477
			Electric arc apparatus Patent [NASA-CASE-XAC-01677]	c 09	N71-20816	Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines [NASA-CASE-ARC-10325]	c 06	N72-25147
			Inertia diaphragm pressure transducer Patent [NASA-CASE-XAC-02981]	c 14	N71-21072	Stereoscopic television system and apparatus [NASA-CASE-ARC-10160-1]	c 23	N72-27728
			Stirring apparatus for plural test tubes Patent [NASA-CASE-XAC-06956]	c 15	N71-21177	Metallic intrusion detector system [NASA-CASE-ARC-10265-1]	c 10	N72-28240
			Exposure system for animals Patent [NASA-CASE-XAC-05333]	c 11	N71-22875	Apparatus for ionization analysis [NASA-CASE-ARC-10017-1]	c 14	N72-29464
			Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent [NASA-CASE-XAC-02807]	c 09	N71-23021	Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas [NASA-CASE-ARC-10308-1]	c 06	N72-31141
			Hall current measuring apparatus having a series resistor for temperature compensation Patent [NASA-CASE-XAC-01662]	c 14	N71-23037			
			Transfer valve Patent [NASA-CASE-XAC-01158]	c 15	N71-23051			
			Hard space suit Patent [NASA-CASE-XAC-07043]	c 05	N71-23161			

C-17

Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
Fibrous refractory composite insulation
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Acoustically swept rotor
[NASA-CASE-ARC-11106-1] c 05 N80-14107
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393
Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
Reverse osmosis membrane of high urea rejection properties
[NASA-CASE-ARC-10980-1] c 27 N80-23452
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Perfluoroalkyl polytriazines containing pendent iododiluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
The 1,2,4-oxadiazole elastomers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
Pressure control valve
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Autonomous navigation system
[NASA-CASE-ARC-11257-1] c 04 N81-21047
Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
Process for the preparation of polycarboranylphosphazenes
[NASA-CASE-ARC-11176-2] c 27 N81-27271
Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
Carboranylcyclotriphosphazenes and their polymers
[NASA-CASE-ARC-11176-1] c 27 N82-18389
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212

High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
Adjustable high emittance gap filler
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
Synthesis of dawsonites
[NASA-CASE-ARC-11326-1] c 25 N83-33977
Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073
Scanning seismic intrusion detection method and apparatus
[NASA-CASE-ARC-11317-1] c 35 N83-34272
Sideloading laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
High temperature glass thermal control structure and coating
[NASA-CASE-ARC-11164-1] c 44 N83-34448
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Synthesis of 2,4,8,10-tetroxaspiro[5.5]undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
Metal (2) 4,4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
Perfluoro (imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507
Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
Fire resistant polyamide based on 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6-diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631
Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698
Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564

Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628
Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384
Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860
The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113
Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258
Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286
Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026
Matching optics for Gaussian beams
[NASA-CASE-ARC-11892-1-SB] c 74 N92-16810
Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811

National Aeronautics and Space Administration. Electronics Research Center, Cambridge, MA.

Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
A method for the deposition of beta-silicon carbide by isoeptaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10972] c 09 N70-11148

Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567
Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635
Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173
Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246

National Aeronautics and Space Administration. Flight Research Center, Edwards, CA.
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Acoustical transducer calibrating system and apparatus
[NASA-CASE-FRC-10060-1] c 14 N73-27379
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Terminal guidance system
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Full wave modulator-demodulator amplifier apparatus
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
National Aeronautics and Space Administration.
Goddard Inst. for Space Studies, New York, NY.
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
Automatic transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
National Aeronautics and Space Administration.
Goddard Space Flight Center, Greenbelt, MD.
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330

Apparatus for measuring swelling characteristics of membranes Patent
 [NASA-CASE-XGS-03865] c 14 N69-21363
 Tumbler system to provide random motion Patent
 [NASA-CASE-XGS-02437] c 15 N69-21472
 Automatic acquisition system for phase-lock loop Patent
 [NASA-CASE-XGS-04994] c 09 N69-21543
 Low power drain semi-conductor circuit Patent
 [NASA-CASE-XGS-04999] c 09 N69-24317
 Spacecraft battery seals Patent
 [NASA-CASE-XGS-03864] c 15 N69-24320
 Scanning aspect sensor employing an apertured disc and a commutator Patent
 [NASA-CASE-XGS-08266] c 14 N69-27432
 Monopulse system with an electronic scanner Patent
 [NASA-CASE-XGS-05582] c 07 N69-27460
 Ring counter Patent
 [NASA-CASE-XGS-03095] c 09 N69-27463
 Retrodirective optical system Patent
 [NASA-CASE-XGS-04480] c 16 N69-27491
 Time division multiplex system Patent
 [NASA-CASE-XGS-05918] c 07 N69-39974
 Doppler frequency spread correction device for multiplex transmissions Patent
 [NASA-CASE-XGS-02749] c 07 N69-39978
 Alkali-metal silicate protective coating Patent
 [NASA-CASE-XGS-04119] c 18 N69-39979
 Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope Patent
 [NASA-CASE-XGS-01725] c 14 N69-39982
 Light sensitive digital aspect sensor Patent
 [NASA-CASE-XGS-00359] c 14 N70-34158
 Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
 [NASA-CASE-XGS-00466] c 21 N70-34297
 Binary magnetic memory device Patent
 [NASA-CASE-XGS-00174] c 08 N70-34743
 Full binary adder Patent
 [NASA-CASE-XGS-00689] c 08 N70-34787
 Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
 [NASA-CASE-XGS-00381] c 09 N70-34819
 Space and atmospheric reentry vehicle Patent
 [NASA-CASE-XGS-00260] c 31 N70-37924
 Variable frequency magnetic multivibrator Patent
 [NASA-CASE-XGS-00458] c 09 N70-38604
 Switching mechanism with energy storage means Patent
 [NASA-CASE-XGS-00473] c 03 N70-38713
 Variable frequency magnetic multivibrator Patent
 [NASA-CASE-XGS-00131] c 09 N70-38995
 Stretch de-spin mechanism Patent
 [NASA-CASE-XGS-00619] c 30 N70-40016
 Folding boom assembly Patent
 [NASA-CASE-XGS-00938] c 32 N70-41367
 Cryogenic connector for vacuum use Patent
 [NASA-CASE-XGS-02441] c 15 N70-41629
 Endless tape cartridge Patent
 [NASA-CASE-XGS-00769] c 14 N70-41647
 Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
 [NASA-CASE-XGS-01231] c 14 N70-41676
 Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
 [NASA-CASE-XGS-02608] c 07 N70-41678
 Prevention of pressure build-up in electrochemical cells Patent
 [NASA-CASE-XGS-01419] c 03 N70-41864
 Variable time constant smoothing circuit Patent
 [NASA-CASE-XGS-01983] c 10 N70-41964
 Endless tape transport mechanism Patent
 [NASA-CASE-XGS-01223] c 07 N71-10609
 Reversible counter employing cascaded single SCR stages Patent
 [NASA-CASE-XGS-01473] c 09 N71-10673
 Electronic beam switching commutator Patent
 [NASA-CASE-XGS-01451] c 09 N71-10677
 Sun tracker with rotatable plane-parallel plate and two photocells Patent
 [NASA-CASE-XGS-01159] c 21 N71-10678
 Non-magnetic battery case Patent
 [NASA-CASE-XGS-00886] c 03 N71-11053
 Interconnection of solar cells Patent
 [NASA-CASE-XGS-01475] c 03 N71-11058
 Frequency shift keyed demodulator Patent
 [NASA-CASE-XGS-02889] c 07 N71-11282
 Bi-polar phase detector and corrector for split phase PCM data signals Patent
 [NASA-CASE-XGS-01590] c 07 N71-12392
 Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
 [NASA-CASE-XGS-04767] c 08 N71-12494

Position location system and method Patent
 [NASA-CASE-GSC-10087-2] c 21 N71-13958
 Fire resistant coating composition Patent
 [NASA-CASE-GSC-10072] c 18 N71-14014
 Passively regulated water electrolysis rocket engine Patent
 [NASA-CASE-XGS-08729] c 28 N71-14044
 Attitude control system Patent
 [NASA-CASE-XGS-04393] c 21 N71-14159
 Retrodirective modulator Patent
 [NASA-CASE-GSC-10062] c 14 N71-15605
 Spacecraft attitude detection system by stellar reference Patent
 [NASA-CASE-XGS-03431] c 21 N71-15642
 Cartwheel satellite synchronization system Patent
 [NASA-CASE-XGS-05579] c 31 N71-15676
 Wide range linear fluxgate magnetometer Patent
 [NASA-CASE-XGS-01587] c 14 N71-15962
 Low friction magnetic recording tape Patent
 [NASA-CASE-XGS-00373] c 23 N71-15978
 Method for etching copper Patent
 [NASA-CASE-XGS-06306] c 17 N71-16044
 Bacteriostatic conformal coating and methods of application Patent
 [NASA-CASE-GSC-10007] c 18 N71-16046
 Serrordyne frequency converter re-entrant amplifier system Patent
 [NASA-CASE-XGS-01022] c 07 N71-16088
 Position location and data collection system and method Patent
 [NASA-CASE-GSC-10083-1] c 30 N71-16090
 Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
 [NASA-CASE-XGS-07514] c 23 N71-16099
 Optical tracker having overlapping reticles on parallel axes Patent
 [NASA-CASE-XGS-05715] c 23 N71-16100
 Self-erecting reflector Patent
 [NASA-CASE-XGS-09190] c 31 N71-16102
 Dust particle injector for hypervelocity accelerators Patent
 [NASA-CASE-XGS-06628] c 24 N71-16213
 Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample Patent
 [NASA-CASE-XGS-05291] c 23 N71-16341
 Angular position and velocity sensing apparatus Patent
 [NASA-CASE-XGS-05680] c 14 N71-17585
 Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
 [NASA-CASE-XGS-03532] c 14 N71-17627
 Omni-directional anisotropic molecular trap Patent
 [NASA-CASE-XGS-00783] c 30 N71-17788
 Method of making tubes Patent
 [NASA-CASE-XGS-04175] c 15 N71-18579
 Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
 [NASA-CASE-XGS-03303] c 08 N71-18595
 Ripple add and ripple subtract binary counters Patent
 [NASA-CASE-XGS-04766] c 08 N71-18602
 Computing apparatus Patent
 [NASA-CASE-XGS-04765] c 08 N71-18693
 Stepping motor control circuit Patent
 [NASA-CASE-GSC-10366-1] c 10 N71-18772
 Traffic control system and method Patent
 [NASA-CASE-GSC-10087-1] c 02 N71-19287
 Apparatus for measuring current flow Patent
 [NASA-CASE-XGS-02439] c 14 N71-19431
 Synchronous counter Patent
 [NASA-CASE-XGS-02440] c 08 N71-19432
 Wide range data compression system Patent
 [NASA-CASE-XGS-02612] c 08 N71-19435
 Apparatus for computing square roots Patent
 [NASA-CASE-XGS-04768] c 08 N71-19437
 Method and apparatus for battery charge control Patent
 [NASA-CASE-XGS-05432] c 03 N71-19438
 Stable amplifier having a stable quiescent point Patent
 [NASA-CASE-XGS-02812] c 09 N71-19466
 Tracking antenna system Patent
 [NASA-CASE-GSC-10553-1] c 07 N71-19854
 Electrochemical coulometer and method of forming same Patent
 [NASA-CASE-XGS-05434] c 03 N71-20491
 Display for binary characters Patent
 [NASA-CASE-XGS-04987] c 08 N71-20571
 Amplifier clamping circuit for horizon scanner Patent
 [NASA-CASE-XGS-01784] c 10 N71-20782
 Diversity receiving system with diversity phase lock Patent
 [NASA-CASE-XGS-01222] c 10 N71-20841
 Signal detection and tracking apparatus Patent
 [NASA-CASE-XGS-03502] c 10 N71-20852

Polarization diversity monopulse tracking receiver Patent
 [NASA-CASE-XGS-03501] c 09 N71-20864
 System for recording and reproducing pulse code modulated data Patent
 [NASA-CASE-XGS-01021] c 08 N71-21042
 Satellite appendage tie down cord Patent
 [NASA-CASE-XGS-02554] c 31 N71-21064
 Reaction wheel scanner Patent
 [NASA-CASE-XGS-02629] c 14 N71-21082
 Nonmagnetic, explosive actuated indexing device Patent
 [NASA-CASE-XGS-02422] c 15 N71-21529
 Bidirectional step torque filter with zero backlash characteristic Patent
 [NASA-CASE-XGS-04227] c 15 N71-21744
 Conforming polisher for aspheric surface of revolution Patent
 [NASA-CASE-XGS-02884] c 15 N71-22705
 Precision thrust gage Patent
 [NASA-CASE-XGS-02319] c 14 N71-22965
 Sealing device for an electrochemical cell Patent
 [NASA-CASE-XGS-02630] c 03 N71-22974
 Rotary bead dropper and selector for testing micrometeorite detectors Patent
 [NASA-CASE-XGS-03304] c 09 N71-22988
 Moment of inertia test fixture Patent
 [NASA-CASE-XGS-01023] c 14 N71-22992
 Fluid flow meter with comparator reference means Patent
 [NASA-CASE-XGS-01331] c 14 N71-22996
 Foamed in place ceramic refractory insulating material Patent
 [NASA-CASE-XGS-02435] c 18 N71-22998
 Digital telemetry system Patent
 [NASA-CASE-XGS-01812] c 07 N71-23001
 Bonded elastomeric seal for electrochemical cells Patent
 [NASA-CASE-XGS-02631] c 03 N71-23006
 Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
 [NASA-CASE-XGS-02607] c 31 N71-23009
 Complementary regenerative switch Patent
 [NASA-CASE-XGS-02751] c 09 N71-23015
 Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
 [NASA-CASE-XGS-03427] c 10 N71-23029
 Sidereal frequency generator Patent
 [NASA-CASE-XGS-02610] c 14 N71-23174
 Solar cell and circuit array and process for nullifying magnetic fields Patent
 [NASA-CASE-XGS-03390] c 03 N71-23187
 Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
 [NASA-CASE-XGS-03632] c 09 N71-23311
 Sealed electrochemical cell provided with a flexible casing Patent
 [NASA-CASE-XGS-01513] c 03 N71-23336
 Digitally controlled frequency synthesizer Patent
 [NASA-CASE-XGS-02317] c 09 N71-23525
 Radio frequency coaxial high pass filter Patent
 [NASA-CASE-XGS-01418] c 09 N71-23573
 Apparatus for phase stability determination Patent
 [NASA-CASE-XGS-01118] c 10 N71-23662
 Tape recorder Patent
 [NASA-CASE-XGS-08259] c 14 N71-23698
 Balance torque meter Patent
 [NASA-CASE-XGS-01013] c 14 N71-23725
 Mechanical actuator Patent
 [NASA-CASE-XGS-04548] c 15 N71-24045
 Selective plating of etched circuits without removing previous plating Patent
 [NASA-CASE-XGS-03120] c 15 N71-24047
 Alkali metal silicate protective coating Patent
 [NASA-CASE-XGS-04799] c 18 N71-24183
 Strain gauge measuring techniques Patent
 [NASA-CASE-XGS-04478] c 14 N71-24233
 Electromagnetic polarization systems and methods Patent
 [NASA-CASE-GSC-10021-1] c 09 N71-24595
 Redundant actuating mechanism Patent
 [NASA-CASE-XGS-08718] c 15 N71-24600
 Satellite communication system and method Patent
 [NASA-CASE-GSC-10118-1] c 07 N71-24621
 Programmable telemetry system Patent
 [NASA-CASE-GSC-10131-1] c 07 N71-24624
 Coulometer and third electrode battery charging circuit Patent
 [NASA-CASE-GSC-10487-1] c 03 N71-24719
 Electronic scanning of 2-channel monopulse patterns Patent
 [NASA-CASE-GSC-10299-1] c 09 N71-24804
 Annular slit colloid thruster Patent
 [NASA-CASE-GSC-10709-1] c 28 N71-25213

Voltage to frequency converter Patent			Tungsten contacts on silicon substrates			High efficiency multifrequency feed		
[NASA-CASE-GSC-10022-1]	c 10	N71-25882	[NASA-CASE-GSC-10695-1]	c 09	N72-25259	[NASA-CASE-GSC-11909]	c 32	N74-20863
Direct current motor with stationary armature and field Patent			Bacterial contamination monitor			Turnstile slot antenna		
[NASA-CASE-XGS-05290]	c 09	N71-25999	[NASA-CASE-GSC-10879-1]	c 14	N72-25413	[NASA-CASE-GSC-11428-1]	c 32	N74-20864
Buck boost voltage regulation circuit Patent			Honeycomb panels formed of minimal surface periodic tubule layers			Method and apparatus for checking fire detectors		
[NASA-CASE-GSC-10735-1]	c 10	N71-26085	[NASA-CASE-ERC-10364]	c 18	N72-25540	[NASA-CASE-GSC-11600-1]	c 35	N74-21019
Adaptive system and method for signal generation Patent			Honeycomb core structures of minimal surface tubule sections			Long range laser traversing system		
[NASA-CASE-GSC-11367]	c 10	N71-26374	[NASA-CASE-ERC-10363]	c 18	N72-25541	[NASA-CASE-GSC-11262-1]	c 36	N74-21091
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent			Gunn-type solid state devices			Method and apparatus for optically monitoring the angular position of a rotating mirror		
[NASA-CASE-XGS-04224]	c 10	N71-26418	[NASA-CASE-XER-07895]	c 26	N72-25679	[NASA-CASE-GSC-11353-1]	c 74	N74-21304
Turn on transient limiter Patent			Use of unilluminated solar cells as shunt diodes for a solar array			Image tube		
[NASA-CASE-GSC-10413]	c 10	N71-26531	[NASA-CASE-GSC-10344-1]	c 03	N72-27053	[NASA-CASE-GSC-11602-1]	c 33	N74-21850
Voltage regulator with plural parallel power source sections Patent			Active tuned circuit			Apparatus for controlling the temperature of balloon-borne equipment		
[NASA-CASE-GSC-10891-1]	c 10	N71-26626	[NASA-CASE-GSC-11340-1]	c 10	N72-33230	[NASA-CASE-GSC-11620-1]	c 34	N74-23039
Method for generating ultra-precise angles Patent			Electric motive machine including magnetic bearing			Coaxial anode wire for gas radiation counters		
[NASA-CASE-XGS-04173]	c 19	N71-26674	[NASA-CASE-XGS-07805]	c 15	N72-33476	[NASA-CASE-GSC-11492-1]	c 35	N74-26949
Resettable monostable pulse generator Patent			Cosmic dust or other similar outer space particles impact location detector			Arterial pulse wave pressure transducer		
[NASA-CASE-GSC-11139]	c 09	N71-27016	[NASA-CASE-GSC-11291-1]	c 25	N72-33696	[NASA-CASE-GSC-11531-1]	c 52	N74-27566
Micro-pound extended range thrust stand Patent			Method and apparatus for determining the contents of contained gas samples			Heat flow calorimeter		
[NASA-CASE-GSC-10710-1]	c 28	N71-27094	[NASA-CASE-GSC-10903-1]	c 14	N73-12444	[NASA-CASE-GSC-11434-1]	c 34	N74-27859
Synchronous dc direct drive system Patent			System for stabilizing torque between a balloon and gondola			Air conditioning system and component therefore distributing air flow from opposite directions		
[NASA-CASE-GSC-10065-1]	c 10	N71-27136	[NASA-CASE-GSC-11077-1]	c 02	N73-13008	[NASA-CASE-GSC-11445-1]	c 31	N74-27902
Antenna array at focal plane of reflector with coupling network for beam switching Patent			Diffuse reflective coating			Passive dual spin misalignment compensators		
[NASA-CASE-GSC-10220-1]	c 07	N71-27233	[NASA-CASE-GSC-11214-1]	c 06	N73-13128	[NASA-CASE-GSC-11479-1]	c 35	N74-28097
Gravity gradient attitude control system Patent			Data processor with conditionally supplied clock signals			Star scanner		
[NASA-CASE-GSC-10555-1]	c 21	N71-27324	[NASA-CASE-GSC-10975-1]	c 08	N73-13187	[NASA-CASE-GSC-11569-1]	c 89	N74-30886
Segmented superconducting magnet for a broadband traveling wave maser Patent			Apparatus for vibrational testing of articles			Millimeter wave pumped parametric amplifier		
[NASA-CASE-XGS-10518]	c 16	N71-28554	[NASA-CASE-GSC-11302-1]	c 14	N73-13416	[NASA-CASE-GSC-11617-1]	c 33	N74-32660
Millimeter wave antenna system Patent Application			Method and system for ejecting fairing sections from a rocket vehicle			Structural heat pipe		
[NASA-CASE-GSC-10949-1]	c 07	N71-28965	[NASA-CASE-GSC-10590-1]	c 31	N73-14853	[NASA-CASE-GSC-11619-1]	c 34	N75-12222
Sampled data controller Patent			Plural beam antenna			Remote platform power conserving system		
[NASA-CASE-GSC-10554-1]	c 08	N71-29033	[NASA-CASE-GSC-11013-1]	c 09	N73-19234	[NASA-CASE-GSC-11182-1]	c 15	N75-13007
Variable digital processor including a register for shifting and rotating bits in either direction Patent			Star tracking reticles and process for the production thereof			Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide		
[NASA-CASE-GSC-10186]	c 08	N71-33110	[NASA-CASE-GSC-11188-2]	c 21	N73-19630	[NASA-CASE-GSC-11577-1]	c 37	N75-15992
Combustion products generating and metering device			Delayed simultaneous release mechanism			Magnetic bearing		
[NASA-CASE-GSC-11095-1]	c 14	N72-10375	[NASA-CASE-GSC-10814-1]	c 03	N73-20039	[NASA-CASE-GSC-11079-1]	c 37	N75-18574
Analog spatial maneuver computer			Doppler compensation by shifting transmitted object frequency within limits			Dish antenna having switchable beamwidth		
[NASA-CASE-GSC-10880-1]	c 08	N72-11172	[NASA-CASE-GSC-10087-4]	c 07	N73-20174	[NASA-CASE-GSC-11760-1]	c 33	N75-19516
Helical recorder arrangement for multiple channel recording on both sides of the tape			Signal-to-noise ratio determination circuit			X-Y alphanumeric character generator for oscilloscopes		
[NASA-CASE-GSC-10614-1]	c 09	N72-11224	[NASA-CASE-GSC-11239-1]	c 10	N73-25241	[NASA-CASE-GSC-11582-1]	c 33	N75-19517
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence			Nutation damper			Controllable high voltage source having fast settling time		
[NASA-CASE-GSC-11133-1]	c 23	N72-11568	[NASA-CASE-GSC-11205-1]	c 15	N73-25513	[NASA-CASE-GSC-11844-1]	c 33	N75-19522
Position location system and method			Low outgassing polydimethylsiloxane material and preparation thereof			Dually mode locked Nd:YAG laser		
[NASA-CASE-GSC-10087-3]	c 07	N72-12080	[NASA-CASE-GSC-11358-1]	c 06	N73-26100	[NASA-CASE-GSC-11746-1]	c 36	N75-19654
Facsimile video remodulation network			Method of detecting and counting bacteria in body fluids			Self-regulating proportionally controlled heating apparatus and technique		
[NASA-CASE-GSC-10185-1]	c 07	N72-12081	[NASA-CASE-GSC-11092-2]	c 04	N73-27052	[NASA-CASE-GSC-11752-1]	c 77	N75-20140
Frangible electrochemical cell			Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves			Low speed phase-lock speed control system		
[NASA-CASE-XGS-10010]	c 03	N72-15986	[NASA-CASE-GSC-10225-1]	c 06	N73-27086	[NASA-CASE-GSC-11127-1]	c 09	N75-24758
Caterpillar micro positioner			Process for making RF shielded cable connector assemblies and the products formed thereby			Modulator for tone and binary signals		
[NASA-CASE-GSC-10780-1]	c 14	N72-16283	[NASA-CASE-GSC-11215-1]	c 09	N73-28083	[NASA-CASE-GSC-11743-1]	c 32	N75-24981
Minimech self-deploying boom mechanism			Device for determining relative angular position between a spacecraft and a radiation emitting celestial body			Digital phase-locked loop		
[NASA-CASE-GSC-10566-1]	c 15	N72-18477	[NASA-CASE-GSC-11444-1]	c 14	N73-28490	[NASA-CASE-GSC-11623-1]	c 33	N75-25040
Heated porous plug microthrustor			Fastener stretcher			Radiation hardening of MOS devices by boron		
[NASA-CASE-GSC-10640-1]	c 28	N72-18766	[NASA-CASE-GSC-11149-1]	c 15	N73-30457	[NASA-CASE-GSC-11425-2]	c 76	N75-25730
Optimum performance spacecraft solar cell system			Spacecraft attitude sensor			Correlation type phase detector		
[NASA-CASE-GSC-10669-1]	c 03	N72-20031	[NASA-CASE-GSC-10890-1]	c 21	N73-30640	[NASA-CASE-GSC-11744-1]	c 33	N75-26243
Monostable multivibrator			Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions			Process for making sheets with parallel pores of uniform size		
[NASA-CASE-GSC-10082-1]	c 10	N72-20221	[NASA-CASE-GSC-11169-2]	c 05	N73-32011	[NASA-CASE-GSC-10984-1]	c 37	N75-26371
Roll alignment detector			Star tracking reticles			Impact position detector for outer space particles		
[NASA-CASE-GSC-10514-1]	c 14	N72-20379	[NASA-CASE-GSC-11188-1]	c 14	N73-32320	[NASA-CASE-GSC-11829-1]	c 35	N75-27331
Cosmic dust sensor			Peen plating			Single frequency, two feed dish antenna having switchable beamwidth		
[NASA-CASE-GSC-10503-1]	c 14	N72-20381	[NASA-CASE-GSC-11163-1]	c 15	N73-32360	[NASA-CASE-GSC-11968-1]	c 32	N76-15329
Solenoid valve including guide for armature and valve member			Recorder/processor apparatus			Micrometeoroid velocity and trajectory analyzer		
[NASA-CASE-GSC-10607-1]	c 15	N72-20442	[NASA-CASE-GSC-11553-1]	c 35	N74-15831	[NASA-CASE-GSC-11892-1]	c 35	N76-15433
Fast response low power drain logic circuits			Method of making porous conductive supports for electrodes			Atomic standard with variable storage volume		
[NASA-CASE-GSC-10878-1]	c 10	N72-22236	[NASA-CASE-GSC-11367-1]	c 44	N74-19692	[NASA-CASE-GSC-11895-1]	c 35	N76-15436
Trap for preventing diffusion pump backstreaming			Formation of star tracking reticles			High voltage distributor		
[NASA-CASE-GSC-10518-1]	c 15	N72-22489	[NASA-CASE-GSC-11188-3]	c 74	N74-20008	[NASA-CASE-GSC-11849-1]	c 33	N76-16332
Resistance soldering apparatus			Radiation hardening of MOS devices by boron			Moving particle composition analyzer		
[NASA-CASE-GSC-10913]	c 15	N72-22491	[NASA-CASE-GSC-11425-1]	c 76	N74-20329	[NASA-CASE-GSC-11889-1]	c 35	N76-16393
Optical system support apparatus			Amplitude steered array			Variable beamwidth antenna		
[NASA-CASE-XER-07896-2]	c 23	N72-22673	[NASA-CASE-GSC-11446-1]	c 33	N74-20860	[NASA-CASE-GSC-11862-1]	c 32	N76-18295
SCR lamp driver			Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly			Automatic character skew and spacing checking network		
[NASA-CASE-GSC-10221-1]	c 09	N72-23171	[NASA-CASE-GSC-11560-1]	c 33	N74-20861	[NASA-CASE-GSC-11925-1]	c 33	N76-18353
Potassium silicate zinc coatings			Ultra-stable oscillator with complementary transistors			Axially and radially controllable magnetic bearing		
[NASA-CASE-GSC-10361-1]	c 18	N72-23581	[NASA-CASE-GSC-11513-1]	c 33	N74-20862	[NASA-CASE-GSC-11551-1]	c 37	N76-18459
Synchronous orbit battery cyclor						Apparatus for simulating optical transmission links		
[NASA-CASE-GSC-11211-1]	c 03	N72-25020				[NASA-CASE-GSC-11877-1]	c 74	N76-18913
Flavin coenzyme assay						Telemetry synchronizer		
[NASA-CASE-GSC-10565-1]	c 06	N72-25149				[NASA-CASE-GSC-11868-1]	c 17	N76-22245
Location identification system						Locking mechanism for orthopedic braces		
[NASA-CASE-ERC-10324]	c 07	N72-25173				[NASA-CASE-GSC-12082-1]	c 54	N76-22914
A dc to ac to dc converter having transistor synchronous rectifiers						Ultraviolet light reflective coating		
[NASA-CASE-GSC-11126-1]	c 09	N72-25253				[NASA-CASE-GSC-11786-1]	c 24	N76-24363
						Switchable beamwidth monopulse method and system		
						[NASA-CASE-GSC-11924-1]	c 33	N76-27472

Fabrication of polycrystalline solar cells on low-cost substrates			Toggle mechanism for pinching metal tubes			Inorganic spark chamber frame and method of making the same		
[NASA-CASE-GSC-12022-1]	c 44	N76-28635	[NASA-CASE-GSC-12274-1]	c 37	N79-28550	[NASA-CASE-GSC-12354-1]	c 35	N82-24471
Method of detecting and counting bacteria			Alkali-metal silicate binders and methods of manufacture			Process of treating cellulosic membrane and alkaline with membrane separator		
[NASA-CASE-GSC-11917-2]	c 51	N76-29891	[NASA-CASE-GSC-12303-1]	c 24	N79-31347	[NASA-CASE-GSC-10019-1]	c 44	N82-24641
Polarization compensator for optical communications			Thermal control canister			Separator for alkaline batteries and method of making same		
[NASA-CASE-GSC-11782-1]	c 74	N76-30053	[NASA-CASE-GSC-12253-1]	c 34	N79-31523	[NASA-CASE-GSC-10350-1]	c 44	N82-24642
Static coefficient test method and apparatus			Wedge immersed thermistor bolometers			Separator for alkaline electric cells and method of making		
[NASA-CASE-GSC-11893-1]	c 35	N76-31489	[NASA-CASE-XGS-01245-1]	c 35	N79-33449	[NASA-CASE-GSC-10017-1]	c 44	N82-24643
Digital plus analog output encoder			Bakeable McLeod gauge			Separator for alkaline electric batteries and method of making		
[NASA-CASE-GSC-12115-1]	c 62	N76-31946	[NASA-CASE-XGS-01293-1]	c 35	N79-33450	[NASA-CASE-GSC-10018-1]	c 44	N82-24644
Method and apparatus for neutralizing potentials induced on spacecraft surfaces			Fluid pressure balanced seal			Alkaline electrochemical cells and method of making		
[NASA-CASE-GSC-11963-1]	c 33	N77-10429	[NASA-CASE-XGS-01286-1]	c 37	N79-33469	[NASA-CASE-GSC-10349-1]	c 44	N82-24645
Inrush current limiter			Antenna deployment mechanism for use with a spacecraft			Aqueous alkali metal hydroxide insoluble cellulose ether membrane		
[NASA-CASE-GSC-11789-1]	c 33	N77-14333	[NASA-CASE-GSC-12331-1]	c 18	N80-14183	[NASA-CASE-XGS-05584-1]	c 25	N82-29370
Linear phase demodulator including a phase locked loop with auxiliary feedback loop			Laser apparatus			Implantable electrical device		
[NASA-CASE-GSC-12018-1]	c 33	N77-14334	[NASA-CASE-GSC-12237-1]	c 36	N80-14384	[NASA-CASE-GSC-12560-1]	c 52	N82-29863
Reel safety brake			Coupling device for moving vehicles			Low intensity X-ray and gamma-ray spectrometer		
[NASA-CASE-GSC-11960-1]	c 37	N77-14479	[NASA-CASE-GSC-12322-1]	c 37	N80-14398	[NASA-CASE-GSC-12587-1]	c 35	N82-32659
Two-dimensional radiant energy array computers and computing devices			Voltage feed through apparatus having reduced partial discharge			Crystal cleaving machine		
[NASA-CASE-GSC-11839-1]	c 60	N77-14751	[NASA-CASE-GSC-12347-1]	c 33	N80-18286	[NASA-CASE-GSC-12584-1]	c 37	N82-32730
Magnetic bearing system			Distributed-switch Dicke radiometers			Multiprism collimator		
[NASA-CASE-GSC-11978-1]	c 37	N77-17464	[NASA-CASE-GSC-12219-1]	c 35	N80-18359	[NASA-CASE-GSC-12608-1]	c 74	N83-10900
Method and apparatus for measuring web material wound on a reel			Method and apparatus for slicing crystals			Massively parallel processor computer		
[NASA-CASE-GSC-11902-1]	c 38	N77-17495	[NASA-CASE-GSC-12291-1]	c 76	N80-18951	[NASA-CASE-GSC-12223-1]	c 60	N83-25378
Cyclical bi-directional rotary actuator			Diffraction grating configuration for X-ray and ultraviolet focusing			Variable speed drive		
[NASA-CASE-GSC-11883-1]	c 37	N77-19458	[NASA-CASE-GSC-12357-1]	c 74	N80-21140	[NASA-CASE-GSC-12643-1]	c 37	N83-26078
The 2 deg/90 deg laboratory scattering photometer			Active nutation controller			Method for milling and drilling glass		
[NASA-CASE-GSC-12088-1]	c 74	N78-13874	[NASA-CASE-GSC-12273-1]	c 35	N80-21719	[NASA-CASE-GSC-12636-1]	c 31	N83-27058
Transformer regulated self-stabilizing chopper			Method and apparatus for holding two separate metal pieces together for welding			Rapid, quantitative determination of bacteria in water		
[NASA-CASE-XGS-09186]	c 33	N78-17295	[NASA-CASE-GSC-12318-1]	c 37	N80-23655	[NASA-CASE-GSC-12158-1]	c 51	N83-27569
Shunt regulation electric power system			Method of forming a sharp edge on an optical device			Method of damping nutation motion with minimum spin axis attitude disturbance		
[NASA-CASE-GSC-10135]	c 33	N78-17296	[NASA-CASE-GSC-12348-1]	c 74	N80-24149	[NASA-CASE-GSC-12551-1]	c 18	N83-28064
Binary to binary coded decimal converter			Scannable beam forming interferometer antenna array system			Automatic thermal switch		
[NASA-CASE-GSC-12044-1]	c 60	N78-17691	[NASA-CASE-GSC-12365-1]	c 32	N80-28578	[NASA-CASE-GSC-12553-1]	c 34	N83-28356
Magnifying image intensifier			Apparatus for supplying conditioned air at a substantially constant temperature and humidity			Cooling by conversion of para to ortho-hydrogen		
[NASA-CASE-GSC-12010-1]	c 74	N78-18905	[NASA-CASE-GSC-12191-1]	c 31	N80-32583	[NASA-CASE-GSC-12770-1]	c 25	N83-29324
Energy storage apparatus			Belt for transmitting power from a cogged driving member to a cogged driven member			Geodetic distance measuring apparatus		
[NASA-CASE-GSC-12030-1]	c 44	N78-24608	[NASA-CASE-GSC-12289-1]	c 37	N80-32717	[NASA-CASE-GSC-12609-2]	c 36	N83-29681
Process for utilizing low-cost graphite substrates for polycrystalline solar cells			System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station			Linear magnetic bearing		
[NASA-CASE-GSC-12022-2]	c 44	N78-24609	[NASA-CASE-GSC-12411-1]	c 33	N81-14221	[NASA-CASE-GSC-12517-1]	c 37	N83-32067
Actuator mechanism			Device for coupling a first vehicle to a second vehicle			Interferometric angle monitor		
[NASA-CASE-GSC-11883-2]	c 37	N78-31426	[NASA-CASE-GSC-12429-1]	c 37	N81-14320	[NASA-CASE-GSC-12614-1]	c 74	N83-32577
Quadrature demodulation			Safety shield for vacuum/pressure chamber viewing port			Method of neutralizing the corrosive surface of amine-cured epoxy resins		
[NASA-CASE-GSC-12137-1]	c 33	N78-32338	[NASA-CASE-GSC-12513-1]	c 31	N81-19343	[NASA-CASE-GSC-12686-1]	c 27	N83-34039
Logarithmic circuit with wide dynamic range			Buck/boost regulator			Active lamp pulse driver circuit		
[NASA-CASE-GSC-12145-1]	c 33	N78-32339	[NASA-CASE-GSC-12360-1]	c 33	N81-19392	[NASA-CASE-GSC-12566-1]	c 33	N83-34189
Wide power range microwave feedback controller			Geodetic distance measuring apparatus			High stability amplifier		
[NASA-CASE-GSC-12146-1]	c 33	N78-32340	[NASA-CASE-GSC-12609-1]	c 36	N81-22344	[NASA-CASE-GSC-12646-1]	c 33	N83-34191
Method and apparatus for splitting a beam of energy			Fluorescent radiation converter			Magnetic bearing and motor		
[NASA-CASE-GSC-12083-1]	c 73	N78-32848	[NASA-CASE-GSC-12528-1]	c 74	N81-24900	[NASA-CASE-GSC-12726-1]	c 37	N83-34323
Time domain phase measuring apparatus			Portable appliance security apparatus			Heat pipe thermal switch		
[NASA-CASE-GSC-12228-1]	c 33	N79-10338	[NASA-CASE-GSC-12399-1]	c 33	N81-25299	[NASA-CASE-GSC-12812-1]	c 34	N83-35307
System for and method of freezing biological tissue			Locking mechanism for orthopedic braces			Focal axis resolver for offset reflector antennas		
[NASA-CASE-GSC-12173-1]	c 51	N79-10694	[NASA-CASE-GSC-12082-2]	c 52	N81-25661	[NASA-CASE-GSC-12630-1]	c 33	N83-36355
Systems and methods for determining radio frequency interference			Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation			High speed multi local plane optical system		
[NASA-CASE-GSC-12150-1]	c 32	N79-11265	[NASA-CASE-GSC-12515-1]	c 33	N81-26360	[NASA-CASE-GSC-12683-1]	c 74	N83-36898
Complementary DMOS-VMOS integrated circuit structure			Apparatus and method for determining the position of a radiant energy source			Real-time 3-D X-ray and gamma-ray viewer		
[NASA-CASE-GSC-12190-1]	c 33	N79-12321	[NASA-CASE-GSC-12147-1]	c 32	N81-27341	[NASA-CASE-GSC-12640-1]	c 74	N84-11920
Electrically conductive thermal control coatings			Interleaving device			Holding fixture for a hot stamping press		
[NASA-CASE-GSC-12207-1]	c 24	N79-14156	[NASA-CASE-GSC-12111-2]	c 33	N81-29342	[NASA-CASE-GSC-12619-1]	c 37	N84-12491
External bulb variable volume maser			Time delay and integration detectors using charge transfer devices			Unidirectional flexural pivot		
[NASA-CASE-GSC-12334-1]	c 36	N79-14362	[NASA-CASE-GSC-12324-1]	c 33	N81-33403	[NASA-CASE-GSC-12622-1]	c 37	N84-12492
Determination of antimicrobial susceptibilities on infected urines without isolation			Scanner			Tuned analog network		
[NASA-CASE-GSC-12046-1]	c 52	N79-14750	[NASA-CASE-GSC-12032-2]	c 43	N82-13465	[NASA-CASE-GSC-12650-1]	c 33	N84-14421
Partial polarizer filter			Microwave switching power divider			Thermal control system		
[NASA-CASE-GSC-12225-1]	c 74	N79-14891	[NASA-CASE-GSC-12420-1]	c 33	N82-16340	[NASA-CASE-GSC-12771-1]	c 34	N84-14461
Thermal compensator for closed-cycle helium refrigerator			Laser measuring system for incremental assemblies			Laser Resonator		
[NASA-CASE-GSC-12168-1]	c 31	N79-17029	[NASA-CASE-GSC-12321-1]	c 36	N82-16396	[NASA-CASE-GSC-12565-1]	c 36	N84-14509
Solar cell module assembly jig			Memory-based frame synchronizer			High stability buffered phase comparator		
[NASA-CASE-XGS-00829-1]	c 44	N79-19447	[NASA-CASE-GSC-12430-1]	c 60	N82-16747	[NASA-CASE-GSC-12645-1]	c 33	N84-16454
System for synchronizing synthesizers of communication systems			Low thrust monopropellant engine			Navigation system and method		
[NASA-CASE-GSC-12148-1]	c 32	N79-20296	[NASA-CASE-GSC-12194-2]	c 20	N82-18314	[NASA-CASE-GSC-12508-1]	c 04	N84-22546
Rotary electric device			Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer			Low noise tuned amplifier		
[NASA-CASE-GSC-12138-1]	c 33	N79-20314	[NASA-CASE-GSC-12081-2]	c 52	N82-22875	[NASA-CASE-GSC-12567-1]	c 33	N84-22887
Low intensity X-ray and gamma-ray imaging device			Automatic thermal switch			Dual aperture multispectral Schmidt objective		
[NASA-CASE-GSC-12263-1]	c 74	N79-20857	[NASA-CASE-GSC-12415-1]	c 33	N82-24419	[NASA-CASE-GSC-12756-1]	c 74	N84-23248
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide			Linear magnetic motor/generator			Off-axis coherently pumped laser		
[NASA-CASE-GSC-11577-3]	c 24	N79-25143	[NASA-CASE-GSC-12518-1]	c 33	N82-24421	[NASA-CASE-GSC-12592-1]	c 36	N84-28065
Microwave dichroic plate			Non-contacting power transfer device			Apparatus for and method of compensating dynamic unbalance		
[NASA-CASE-GSC-12171-1]	c 33	N79-28416	[NASA-CASE-GSC-12595-1]	c 33	N82-24422	[NASA-CASE-GSC-12550-1]	c 37	N84-28082
Shock isolator for operating a diode laser on a closed-cycle refrigerator						Workpiece positioning vise		
[NASA-CASE-GSC-12297-1]	c 37	N79-28549				[NASA-CASE-GSC-12762-1]	c 37	N84-28083
						Memory-based parallel data output controller		
						[NASA-CASE-GSC-12447-2]	c 60	N84-28491
						Imaging X-ray spectrometer		
						[NASA-CASE-GSC-12682-1]	c 35	N84-33765

Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913

Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294

Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337

Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

Method of and apparatus for measuring temperature and pressure
[NASA-CASE-GSC-12558-1] c 36 N85-21639

Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044

Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145

High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147

Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281

JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515

Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580

Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885

GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150

Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668

Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190

Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650

Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266

Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624

Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671

Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679

Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904

Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271

Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808

Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894

Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133

Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N89-14374

Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578

Cellular thermosetting fluorodiepoxy polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949

Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282

Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541

Reflection oscillators employing series resonant crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635

Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N91-13734

Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N91-14001

Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066

Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550

Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387

Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388

Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N91-17401

Connection space reduction mechanism
[NASA-CASE-GSC-13220-1] c 37 N91-21525

Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438

Nano-G research laboratory for a spacecraft
[NASA-CASE-GSC-13197-1] c 18 N91-27201

Differential current source
[NASA-CASE-GSC-13280-1] c 33 N91-27479

Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522

High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N91-28363

Edge technique for measurement of laser frequency shifts including the Doppler shift
[NASA-CASE-GSC-13343-1] c 36 N91-28557

Improved superconducting bearings
[NASA-CASE-GSC-13346-1] c 37 N91-28578

Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N91-28579

Spline-locking payload fastener
[NASA-CASE-GSC-13378-1] c 37 N91-28581

Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N91-28582

Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N91-28727

Driven shielding capacitive proximity sensor
[NASA-CASE-GSC-13377-1] c 63 N91-28785

Compliant walker
[NASA-CASE-GSC-13348-2] c 52 N91-29714

Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530

Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-31656

Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546

Control system for ruling blazed, aberration corrected diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N92-10186

Magnetostriuctive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N92-15331

Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197

J-hook latching device
[NASA-CASE-GSC-13200-1] c 37 N92-21500

Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N92-21728

National Aeronautics and Space Administration, Hugh L. Dryden Flight Research Center, Edwards, CA.

Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477

Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308

Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419

Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061

Voltage regulator for battery power source
[NASA-CASE-FRC-10116-1] c 33 N79-23345

Air speed and altitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036

Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560

Pulse transducer with artifact signal attenuator
[NASA-CASE-FRC-11012-1] c 52 N80-23969

Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

System for use in conducting wake investigation for a wing in flight
[NASA-CASE-FRC-11024-1] c 02 N80-28300

Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583

Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057

Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499

Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431

Electrical servo actuator bracket
[NASA-CASE-FRC-11044-1] c 37 N81-33483

System for providing an integrated display of instantaneous information relative to aircraft altitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075

Multiple pure tone elimination strut assembly
[NASA-CASE-FRC-11062-1] c 71 N82-16800

Apparatus for damping operator induced oscillations of a controlled system
[NASA-CASE-FRC-11041-1] c 33 N82-18493

Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231

Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417

Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839

Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737

Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975

Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

National Aeronautics and Space Administration, John C. Stennis Space Center, Bay Saint Louis, MS.

Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691

Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733

Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609

Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662

Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976

Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515

National Aeronautics and Space Administration, John F. Kennedy Space Center, Cocoa Beach, FL.

Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785

Quick attach and release fluid coupling assembly
Patent
[NASA-CASE-XKS-01985] c 15 N71-10782

Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521

Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566

Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600

Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493

Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234

Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796

Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175

Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663

Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043

Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606

VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614

BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890

Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985

Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25855

Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134

Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292

Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787

Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067

Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338

Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629

Protective suit having an audio transceiver Patent [NASA-CASE-KSC-10164]	c 07	N71-33108	Prosthesis coupling [NASA-CASE-KSC-11069-1]	c 52	N79-26772	Hypersonic reentry vehicle Patent [NASA-CASE-XMS-04142]	c 31	N70-41631
Ripple indicator [NASA-CASE-KSC-10162]	c 09	N72-11225	Fire extinguishing apparatus having a slidable mass for a penetrator nozzle [NASA-CASE-KSC-11064-1]	c 31	N81-14137	Angular accelerometer Patent [NASA-CASE-XMS-05936]	c 14	N70-41682
High speed photo-optical time recording [NASA-CASE-KSC-10294]	c 14	N72-18411	System for sterilizing objects [NASA-CASE-KSC-11085-1]	c 54	N81-24724	Indexed keyed connection Patent [NASA-CASE-XMS-02532]	c 15	N70-41808
High speed direct binary-to-binary coded decimal converter [NASA-CASE-KSC-10326]	c 08	N72-21197	Common data buffer system [NASA-CASE-KSC-11048-1]	c 62	N81-24779	Discrete local altitude sensing device Patent [NASA-CASE-XMS-03792]	c 14	N70-41812
Automatic frequency control loop including synchronous switching circuits [NASA-CASE-KSC-10393]	c 09	N72-21247	System and method for refurbishing and processing parachutes [NASA-CASE-KSC-11042-2]	c 02	N81-26073	Cryogenic storage system Patent [NASA-CASE-XMS-04390]	c 31	N70-41871
Zero gravity shadow shield aligner [NASA-CASE-KSC-10622-1]	c 31	N72-21893	Decommutator patchboard verifier [NASA-CASE-KSC-11065-1]	c 33	N81-26359	Mass measuring system Patent [NASA-CASE-XMS-03371]	c 05	N70-42000
Universal environment package with sectional component housing [NASA-CASE-KSC-10031]	c 15	N72-22486	Automatic flowmeter calibration system [NASA-CASE-KSC-11076-1]	c 34	N81-26402	Line cutter Patent [NASA-CASE-XMS-04072]	c 15	N70-42017
Buffered analog converter [NASA-CASE-KSC-10397]	c 08	N72-25206	Lightning discharge identification system [NASA-CASE-KSC-11099-1]	c 47	N82-24779	Transpirationally cooled heat ablation system Patent [NASA-CASE-XMS-02677]	c 31	N70-42075
Lamp modulator [NASA-CASE-KSC-10565]	c 09	N72-25250	Method for refurbishing and processing parachutes [NASA-CASE-KSC-11042-1]	c 09	N82-29330	Voltage-current characteristic simulator Patent [NASA-CASE-XMS-01554]	c 10	N71-10578
Cable stabilizer for open shaft cable operated elevators [NASA-CASE-KSC-10513]	c 15	N72-25453	Method for repair of thin glass coatings [NASA-CASE-KSC-11097-1]	c 27	N82-33520	Training vehicle for controlling attitude Patent [NASA-CASE-XMS-02977]	c 11	N71-10746
Pressurized lighting system [NASA-CASE-KSC-10644]	c 09	N72-27227	Serial data correlator/code translator [NASA-CASE-KSC-11025-1]	c 32	N83-13323	Gravity stabilized flying vehicle Patent [NASA-CASE-MSC-12111-1]	c 02	N71-11039
High speed direct binary to binary coded decimal converter and scaler [NASA-CASE-KSC-10595]	c 08	N73-12176	Fiber optic crossbar switch for automatically patching optical signals [NASA-CASE-KSC-11104-1]	c 74	N83-29032	Helmet assembly and latch means therefor Patent [NASA-CASE-XMS-04935]	c 05	N71-11190
Geysering inhibitor for vertical cryogenic transfer pipe [NASA-CASE-KSC-10615]	c 15	N73-12486	Automatic level control circuit [NASA-CASE-KSC-11170-1]	c 33	N83-36356	Pressure suit tie-down mechanism Patent [NASA-CASE-XMS-00784]	c 05	N71-12335
Electronic video editor [NASA-CASE-KSC-10003]	c 10	N73-13235	Inflight IFR procedures simulator [NASA-CASE-KSC-11218-1]	c 09	N85-19990	Hand-held self-manuevering unit Patent [NASA-CASE-XMS-05304]	c 05	N71-12336
Collapsible high gain antenna [NASA-CASE-KSC-10392]	c 07	N73-26117	Video processor for air traffic control beacon system [NASA-CASE-KSC-11155-1]	c 04	N86-19304	Pressure garment joint Patent [NASA-CASE-XMS-09636]	c 05	N71-12344
Floating baffle to improve efficiency of liquid transfer from tanks [NASA-CASE-KSC-10639]	c 15	N73-26472	Method and apparatus for operating on compacted PCM voice data [NASA-CASE-KSC-11285-1]	c 32	N86-27513	Emergency escape system Patent [NASA-CASE-MSC-12086-1]	c 05	N71-12345
Zero gravity liquid transfer screen [NASA-CASE-KSC-10626]	c 14	N73-27378	Personnel emergency carrier vehicle [NASA-CASE-KSC-11282-1]	c 85	N87-21755	Dynamic Doppler simulator Patent [NASA-CASE-XMS-05454-1]	c 07	N71-12391
Television multiplexing system [NASA-CASE-KSC-10654-1]	c 07	N73-30115	Quick-disconnect inflatable seal assembly [NASA-CASE-KSC-11368-1]	c 37	N89-13786	Electrical load protection device Patent [NASA-CASE-MSC-12135-1]	c 09	N71-12526
Lightning tracking system [NASA-CASE-KSC-10729-1]	c 09	N73-32110	Multi-adjustable headband [NASA-CASE-KSC-11322-1]	c 54	N89-29953	High voltage pulse generator Patent [NASA-CASE-MSC-12178-1]	c 09	N71-13518
Rocket borne instrument to measure electric fields inside electrified clouds [NASA-CASE-KSC-10730-1]	c 14	N73-32318	Vortex motion phase separator for zero gravity liquid transfer [NASA-CASE-KSC-11387-1]	c 29	N90-20236	Process for conditioning tanned sharkskin and articles made therefrom Patent [NASA-CASE-XMS-09691-1]	c 18	N71-15545
Electric field measuring and display system [NASA-CASE-KSC-10731-1]	c 33	N74-27862	Induction-type metal detector with increased scanning area capability [NASA-CASE-KSC-11386-1]	c 35	N90-22023	Ablation structures Patent [NASA-CASE-XMS-01816]	c 33	N71-15623
Digital servo controller [NASA-CASE-KSC-10769-1]	c 33	N74-29556	Optical shutter switching matrix [NASA-CASE-KSC-11392-1]	c 74	N90-22383	Fluid power transmission Patent [NASA-CASE-XMS-01445]	c 12	N71-16031
Signal conditioner test set [NASA-CASE-KSC-10750-1]	c 35	N75-12270	Liquid hydrogen polygeneration system and process [NASA-CASE-KSC-11304-2]	c 28	N91-14495	Spacecraft radiator cover Patent [NASA-CASE-MSC-12049]	c 31	N71-16080
Variable resistance constant tension and lubrication device [NASA-CASE-KSC-10723-1]	c 37	N75-13265	Multi-adjustable headband [NASA-CASE-KSC-11322-1]	c 54	N89-29953	Method of improving heat transfer characteristics in a nucleate boiling process Patent [NASA-CASE-XMS-04268]	c 33	N71-16277
Voltage monitoring system [NASA-CASE-KSC-10736-1]	c 33	N75-19521	Optical shutter switching matrix [NASA-CASE-KSC-11392-1]	c 74	N90-22383	Heated element fluid flow sensor Patent [NASA-CASE-MSC-12084-1]	c 12	N71-17569
Lightning current measuring systems [NASA-CASE-KSC-10807-1]	c 33	N75-26246	Liquid hydrogen polygeneration system and process [NASA-CASE-KSC-11304-2]	c 28	N91-14495	Biological isolation garment Patent [NASA-CASE-MSC-12206-1]	c 05	N71-17599
Dual digital video switcher [NASA-CASE-KSC-10782-1]	c 33	N75-30431	System for monitoring signal amplitude ranges [NASA-CASE-XMS-04061-1]	c 09	N69-39885	Metal valve pintle with encapsulated elastomeric body Patent [NASA-CASE-MSC-12116-1]	c 15	N71-17648
Compact-bi-phase pulse coded modulation decoder [NASA-CASE-KSC-10834-1]	c 33	N76-14371	Amplifier drift tester [NASA-CASE-XMS-05562-1]	c 09	N69-39986	Method for forming plastic materials Patent [NASA-CASE-XMS-05518]	c 15	N71-17803
Percutaneous connector device [NASA-CASE-KSC-10849-1]	c 52	N77-14738	System for improving signal-to-noise ratio of a communication signal Patent Application [NASA-CASE-MSC-12259-1]	c 07	N70-12616	Flexible blade antenna Patent [NASA-CASE-MSC-12101]	c 09	N71-18720
Magnetic electrical connectors for biomedical percutaneous implants [NASA-CASE-KSC-11030-1]	c 52	N77-25772	Two-step rocket engine bipropellant valve Patent [NASA-CASE-XMS-04890-1]	c 15	N70-22192	Space suit heat exchanger Patent [NASA-CASE-XMS-09571]	c 05	N71-19439
Rotational joint assembly for the prosthetic leg [NASA-CASE-KSC-11004-1]	c 54	N77-30749	Heat shield Patent [NASA-CASE-XMS-00486]	c 33	N70-33344	Light intensity modulator controller Patent [NASA-CASE-XMS-04300]	c 09	N71-19479
Fiber optic multiplex optical transmission system [NASA-CASE-KSC-11047-1]	c 74	N78-14889	Life raft Patent [NASA-CASE-XMS-00863]	c 05	N70-34857	Solar optical telescope dome control system Patent [NASA-CASE-MSC-10966]	c 14	N71-19568
Microcomputerized electric field meter diagnostic and calibration system [NASA-CASE-KSC-11035-1]	c 35	N78-28411	Shock absorbing support and restraint means Patent [NASA-CASE-XMS-01240]	c 05	N70-35152	Subgravity simulator Patent [NASA-CASE-XMS-04798]	c 11	N71-21474
Ocean thermal plant [NASA-CASE-KSC-11034-1]	c 44	N78-32542	Energy absorbing structure Patent Application [NASA-CASE-MSC-12279-1]	c 15	N70-35679	Shock absorber Patent [NASA-CASE-XMS-03722]	c 15	N71-21530
Lightning current waveform measuring system [NASA-CASE-KSC-11018-1]	c 33	N79-10337	Bonded solid lubricant coating Patent [NASA-CASE-XMS-00259]	c 18	N70-36400	Apparatus for machining geometric cones Patent [NASA-CASE-XMS-04292]	c 15	N71-22722
Remote lightning monitor system [NASA-CASE-KSC-11031-1]	c 33	N79-11315	Life preserver Patent [NASA-CASE-XMS-00864]	c 05	N70-36493	Rescue litter flotation assembly Patent [NASA-CASE-XMS-04170]	c 05	N71-22748
Illumination control apparatus for compensating solar light [NASA-CASE-KSC-11010-1]	c 74	N79-12890	Resuscitation apparatus Patent [NASA-CASE-XMS-01115]	c 05	N70-39922	Aligning and positioning device Patent [NASA-CASE-XMS-04178]	c 15	N71-22798
Lightning current detector [NASA-CASE-KSC-11057-1]	c 33	N79-14305	Inflatable radar reflector unit Patent [NASA-CASE-XMS-00893]	c 07	N70-40063	Tension measurement device Patent [NASA-CASE-XMS-04545]	c 15	N71-22878
Apparatus including a plurality of spaced transformers for locating short circuits in cables [NASA-CASE-KSC-10899-1]	c 33	N79-18193	Measuring device Patent [NASA-CASE-XMS-01546]	c 14	N70-40233	Amplitude modulated laser transmitter Patent [NASA-CASE-XMS-04269]	c 16	N71-22895
Digital automatic gain amplifier [NASA-CASE-KSC-11008-1]	c 33	N79-22373	Liquid-gas separator for zero gravity environment Patent [NASA-CASE-XMS-01492]	c 05	N70-41297	Digital cardiachometer system Patent [NASA-CASE-XMS-02399]	c 05	N71-22896
Telephone multiline signaling using common signal pair [NASA-CASE-KSC-11023-1]	c 32	N79-23310	Instrument for use in performing a controlled Valsalva maneuver Patent [NASA-CASE-XMS-01615]	c 05	N70-41329	Phonocardiograph transducer Patent [NASA-CASE-XMS-05365]	c 14	N71-22993
			Radial module space station Patent [NASA-CASE-XMS-01906]	c 31	N70-41373	Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent [NASA-CASE-XMS-02930]	c 11	N71-23042
						Soft frame adjustable eyeglasses Patent [NASA-CASE-XMS-06064]	c 05	N71-23096
						Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent [NASA-CASE-XMS-06061]	c 05	N71-23317

C-25

Flexible pile thermal barrier insulator			Method for applying photographic resists to otherwise incompatible substrates			Tanker orbit transfer vehicle and method		
[NASA-CASE-MSC-19568-1]	c 34	N78-25350	[NASA-CASE-MSC-18107-1]	c 27	N81-25209	[NASA-CASE-MSC-20543-1]	c 18	N84-22610
Fluid valve assembly			Structural members, method and apparatus			Doppler radar having phase modulation of both transmitted and reflected return signals		
[NASA-CASE-MSC-12731-1]	c 37	N78-25426	[NASA-CASE-MSC-16217-1]	c 31	N81-27323	[NASA-CASE-MSC-18675-1]	c 32	N84-22820
Variable contour securing system			Shielded conductor cable system			Heat resistant protective hand covering		
[NASA-CASE-MSC-16270-1]	c 37	N78-27423	[NASA-CASE-MSC-12745-1]	c 33	N81-27397	[NASA-CASE-MSC-20261-2]	c 54	N84-23113
Multi-purpose wind tunnel reaction control model block			Urine collection apparatus			Method and apparatus for receiving and tracking phase modulated signals		
[NASA-CASE-MSC-19706-1]	c 09	N78-31129	[NASA-CASE-MSC-18381-1]	c 52	N81-28740	[NASA-CASE-MSC-16170-2]	c 32	N84-27952
Heat resistant polymers of oxidized styrylphosphine			Reciprocating engines			Heat resistant protective hand covering		
[NASA-CASE-MSC-14903-1]	c 27	N78-32256	[NASA-CASE-MSC-16239-1]	c 37	N81-32510	[NASA-CASE-MSC-20261-1]	c 54	N84-28484
Condition sensor system and method			Cavity-backed, micro-strip dipole antenna array			Digital interface for bi-directional communication between a computer and a peripheral device		
[NASA-CASE-MSC-14805-1]	c 54	N78-32720	[NASA-CASE-MSC-18606-1]	c 32	N82-11336	[NASA-CASE-MSC-20258-1]	c 60	N84-28492
Bit error rate measurement above and below bit rate tracking threshold			Low temperature latching solenoid			Slow opening valve		
[NASA-CASE-MSC-12743-1]	c 32	N79-10263	[NASA-CASE-MSC-18106-1]	c 33	N82-11357	[NASA-CASE-MSC-20112-1]	c 37	N85-20338
Phased array antenna control			Logic-controlled occlusive cuff system			Television camera video level control system		
[NASA-CASE-MSC-14939-1]	c 32	N79-11264	[NASA-CASE-MSC-14836-1]	c 52	N82-11770	[NASA-CASE-MSC-18578-1]	c 32	N85-21427
Apparatus and method for stabilized phase detection for binary signal tracking loops			Electrophotolysis oxidation system for measurement of organic concentration in water			Self-charging metering and dispensing device for fluids		
[NASA-CASE-MSC-16461-1]	c 33	N79-11313	[NASA-CASE-MSC-16497-1]	c 25	N82-12166	[NASA-CASE-MSC-20275-1]	c 35	N85-21595
Positive isolation disconnect			Heat sealable, flame and abrasion resistant coated fabric			Connection system		
[NASA-CASE-MSC-16043-1]	c 37	N79-11402	[NASA-CASE-MSC-18382-1]	c 27	N82-16238	[NASA-CASE-MSC-20319-1]	c 37	N85-21649
Thermal insulation attaching means			Surface conforming thermal/pressure seal			Monogroove heat pipe design: Insulated liquid channel with bridging wick		
[NASA-CASE-MSC-12619-2]	c 27	N79-12221	[NASA-CASE-MSC-18422-1]	c 37	N82-16408	[NASA-CASE-MSC-20497-1]	c 34	N85-29180
Lightweight electrically-powered flexible thermal laminate			Direct current ballast circuit for metal halide lamp			Moisture content and gas sampling device		
[NASA-CASE-MSC-12662-1]	c 33	N79-12331	[NASA-CASE-MSC-18407-1]	c 33	N82-24427	[NASA-CASE-MSC-18866-1]	c 35	N85-29213
Simultaneous treatment of SO ₂ containing stack gases and waste water			Precision heat forming of tetrafluoroethylene tubing			Low gravity exothermic heating/cooling apparatus		
[NASA-CASE-MSC-16258-1]	c 45	N79-12584	[NASA-CASE-MSC-18430-1]	c 37	N82-24491	[NASA-CASE-MSC-25707-1]	c 35	N85-29214
Length mode piezoelectric ultrasonic transducer for inspection of solid objects			High temperature penetrator assembly with bayonet plug and ramp-activated lock			Spray applicator for spraying coatings and other fluids in space		
[NASA-CASE-MSC-19672-1]	c 38	N79-14398	[NASA-CASE-MSC-18526-1]	c 37	N82-24494	[NASA-CASE-MSC-18852-1]	c 37	N85-29283
Interactive color display for multispectral imagery using correlation clustering			A method and technique for installing light-weight fragile, high-temperature fiber insulation			Linear motion valve		
[NASA-CASE-MSC-16253-1]	c 32	N79-20297	[NASA-CASE-MSC-18934-3]	c 24	N82-26387	[NASA-CASE-MSC-20148-1]	c 37	N85-29284
Sequencing device utilizing planetary gear set			Open ended tubing cutters			Light transmitting window assembly		
[NASA-CASE-MSC-19514-1]	c 37	N79-20377	[NASA-CASE-MSC-18538-1]	c 37	N82-26672	[NASA-CASE-MSC-18417-1]	c 74	N85-29750
Water separator			Reusable captive blind fastener			Slide release mechanism		
[NASA-CASE-XMS-01295-1]	c 37	N79-21345	[NASA-CASE-MSC-18742-1]	c 37	N82-26673	[NASA-CASE-MSC-20080-1]	c 37	N85-30334
Metabolic rate meter and method			Spiral slotted phased antenna array			Liquid crystal light valve structures		
[NASA-CASE-MSC-12239-1]	c 52	N79-21750	[NASA-CASE-MSC-18532-1]	c 32	N82-27558	[NASA-CASE-MSC-20036-1]	c 76	N85-33826
Fluid sample collection and distribution system			Thermal garment			Reactant pressure differential control for fuel cell gases		
[NASA-CASE-MSC-16841-1]	c 34	N79-24285	[NASA-CASE-XMS-03694-1]	c 54	N82-29002	[NASA-CASE-MSC-20127-2]	c 37	N85-34403
Thermal insulation protection means			Reconfiguring redundancy management			Fluid leak indicator		
[NASA-CASE-MSC-12737-1]	c 24	N79-25142	[NASA-CASE-MSC-18498-1]	c 60	N82-29013	[NASA-CASE-MSC-20783-1]	c 35	N86-20756
System for automatically switching transformer coupled lines			Absorbent product to absorb fluids			Spillage detector for liquid chromatography systems		
[NASA-CASE-MSC-16697-1]	c 33	N79-28415	[NASA-CASE-MSC-18223-1]	c 24	N82-29362	[NASA-CASE-MSC-20206-1]	c 25	N86-27431
Fused switch			Attachment system for silica tiles			Multi-leg heat pipe evaporator		
[NASA-CASE-XMS-01244-1]	c 33	N79-33393	[NASA-CASE-MSC-18741-1]	c 27	N82-29456	[NASA-CASE-MSC-20812-1]	c 34	N86-27593
Chassis unit insert tightening-extract device			Optical crystal temperature gauge with fiber optic connections			Foldable self-erecting joint		
[NASA-CASE-XMS-01077-1]	c 37	N79-33467	[NASA-CASE-MSC-18627-1]	c 74	N82-30071	[NASA-CASE-MSC-20635-1]	c 18	N87-14373
Compound oxidized styrylphosphine			Random digital encryption secure communication system			Real-time garbage collection for list processing		
[NASA-CASE-MSC-14903-2]	c 27	N80-10358	[NASA-CASE-MSC-16462-1]	c 32	N82-31583	[NASA-CASE-MSC-20964-1]	c 60	N87-14863
Portable breathing system			CAM controlled retractable door latch			Infusion extractor		
[NASA-CASE-MSC-16182-1]	c 54	N80-10799	[NASA-CASE-MSC-20304-1]	c 37	N82-31690	[NASA-CASE-MSC-20761-1]	c 37	N87-15465
Method and apparatus for eliminating luminol interference material			Densification of porous refractory substrates			Self-contained, single-use hose and tubing cleaning module		
[NASA-CASE-MSC-16260-1]	c 51	N80-16714	[NASA-CASE-MSC-18737-1]	c 24	N83-13171	[NASA-CASE-MSC-20857-1]	c 37	N87-17035
Pressure limiting propellant actuating system			Method of repairing surface damage to porous refractory substrates			Sun shield		
[NASA-CASE-MSC-18179-1]	c 20	N80-18097	[NASA-CASE-MSC-18736-1]	c 24	N83-13172	[NASA-CASE-MSC-20162-1]	c 37	N87-17036
Floating nut retention system			Gas-to-hydraulic power converter			Method and apparatus for measuring frequency and phase difference		
[NASA-CASE-MSC-16938-1]	c 37	N80-23653	[NASA-CASE-MSC-18794-1]	c 44	N83-14693	[NASA-CASE-MSC-20865-1]	c 32	N87-18692
Heat resistant polymers of oxidized styrylphosphine			High temperature silicon carbide impregnated insulating fabrics			Multi-path peristaltic pump		
[NASA-CASE-MSC-14903-3]	c 27	N80-24438	[NASA-CASE-MSC-18832-1]	c 27	N83-18908	[NASA-CASE-MSC-20907-1]	c 37	N87-18818
Vitro-violet process for producing flame resistant polyamides and products produced thereby			Kinesimetric method and apparatus			Pumped two-phase heat transfer loop		
[NASA-CASE-MSC-16074-1]	c 27	N80-26446	[NASA-CASE-MSC-18929-1]	c 39	N83-20280	[NASA-CASE-MSC-20841-1]	c 34	N87-22950
Method and automated apparatus for detecting coliform organisms			Compression test apparatus			Apparatus and method of capturing an orbiting spacecraft		
[NASA-CASE-MSC-16777-1]	c 51	N80-27067	[NASA-CASE-MSC-18723-1]	c 35	N83-21312	[NASA-CASE-MSC-20979-1]	c 37	N87-22985
Multiple band circularly polarized microstrip antenna			Bio-medical flow sensor			Method of making a flexible diaphragm		
[NASA-CASE-MSC-18334-1]	c 32	N80-32604	[NASA-CASE-MSC-18761-1]	c 52	N83-27577	[NASA-CASE-MSC-20797-1]	c 37	N87-23981
Multispectral scanner optical system			Apparatus for determining changes in limb volume			Method and apparatus for telemetry adaptive bandwidth compression		
[NASA-CASE-MSC-18255-1]	c 74	N80-33210	[NASA-CASE-MSC-18759-1]	c 52	N83-27578	[NASA-CASE-MSC-20821-1]	c 17	N87-25348
Surface finishing			Degassifying and mixing apparatus for liquids			Improved method and apparatus for waste collection and storage		
[NASA-CASE-MSC-12631-3]	c 27	N81-14077	[NASA-CASE-MSC-18936-1]	c 35	N83-29652	[NASA-CASE-MSC-21025-1]	c 31	N87-25495
Coaxial phased array antenna			Apparatus for accurately preloading auger attachment means for frangible protective material			Processing circuit with asymmetry corrector and convolutional encoder for digital data		
[NASA-CASE-MSC-16800-1]	c 32	N81-14187	[NASA-CASE-MSC-18791-1]	c 37	N83-36482	[NASA-CASE-MSC-20187-1]	c 33	N87-25531
Installing fiber insulation			Automatic compression adjusting mechanism for internal combustion engines			Four-terminal electrical testing device		
[NASA-CASE-MSC-16973-1]	c 37	N81-14317	[NASA-CASE-MSC-18807-1]	c 37	N83-36483	[NASA-CASE-MSC-21166-1]	c 35	N87-25555
Pseudonoise code tracking loop			Absorbent product and articles made therefrom			Preloadable vector sensitive latch		
[NASA-CASE-MSC-18035-1]	c 32	N81-15179	[NASA-CASE-MSC-18223-2]	c 54	N84-11758	[NASA-CASE-MSC-20910-1]	c 37	N87-25582
Thermal barrier pressure seal			Method and technique for installing light-weight, fragile, high-temperature fiber insulation			Monogroove cold plate		
[NASA-CASE-MSC-18134-1]	c 37	N81-15363	[NASA-CASE-MSC-16934-3]	c 24	N84-16262	[NASA-CASE-MSC-20946-1]	c 34	N87-28867
Digital numerically controlled oscillator			Method and apparatus for simulating gravitational forces on a living organism			Tapered, tubular polyester fabric		
[NASA-CASE-MSC-16747-1]	c 33	N81-17349	[NASA-CASE-MSC-20202-1]	c 54	N84-16803	[NASA-CASE-MSC-21082-1]	c 27	N87-29672
Self-calibrating threshold detector			Pre-stressed thermal protection systems			Locking hinge		
[NASA-CASE-MSC-16370-1]	c 35	N81-19427	[NASA-CASE-MSC-20254-1]	c 16	N84-22601	[NASA-CASE-MSC-21056-1]	c 18	N88-23827
Cell and method for electrolysis of water and anode			Apparatus for releasably connecting first and second objects in predetermined space relationship			Hermetically sealable package for hybrid solid-state electronic devices and the like		
[NASA-CASE-MSC-16394-1]	c 28	N81-24280	[NASA-CASE-MSC-18969-1]	c 18	N84-22605	[NASA-CASE-MSC-20181-1]	c 33	N88-23941
Urine collection device								
[NASA-CASE-MSC-16433-1]	c 52	N81-24711						

C-27

Pressure vessel flex joint [NASA-CASE-MSC-21748-1]	c 37	N92-21727	Logarithmic converter Patent [NASA-CASE-XLA-00471]	c 08	N70-34778	Techniques for insulating cryogenic fuel containers Patent [NASA-CASE-XLA-01967]	c 31	N70-42015
Assured crew return vehicle [NASA-CASE-MSC-21536-1]	c 18	N92-21999	Mandrel for shaping solid propellant rocket fuel into a motor casing Patent [NASA-CASE-XLA-00304]	c 27	N70-34783	Double hinged flap Patent [NASA-CASE-XLA-01290]	c 02	N70-42016
Two dimensional vernier [NASA-CASE-MSC-21700-1]	c 35	N92-22039	Impact simulator Patent [NASA-CASE-XLA-00493]	c 11	N70-34786	Spacecraft separation system for spinning vehicles and/or payloads Patent [NASA-CASE-XLA-02132]	c 31	N71-10582
National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.			Accelerometer with FM output Patent [NASA-CASE-XLA-00492]	c 14	N70-34799	Method for molding compounds Patent [NASA-CASE-XLA-01091]	c 15	N71-10672
Jet shoes [NASA-CASE-XLA-08491]	c 05	N69-21380	Frangible tube energy dissipation Patent [NASA-CASE-XLA-00754]	c 15	N70-34850	Automatic force measuring system Patent [NASA-CASE-XLA-02605]	c 14	N71-10773
Condenser - Separator [NASA-CASE-XLA-08645]	c 15	N69-21465	Landing arrangement for aerial vehicle Patent [NASA-CASE-XLA-00806]	c 02	N70-34858	Gas analyzer for bi-gaseous mixtures Patent [NASA-CASE-XLA-01131]	c 14	N71-10774
Connector - Electrical [NASA-CASE-XLA-01288]	c 09	N69-21470	Method and apparatus for shock protection Patent [NASA-CASE-XLA-00482]	c 15	N70-36409	Multiple input radio receiver Patent [NASA-CASE-XLA-00901]	c 07	N71-10775
A support technique for vertically oriented launch vehicles [NASA-CASE-XLA-02704]	c 11	N69-21540	Inflatable honeycomb Patent [NASA-CASE-XLA-00204]	c 32	N70-36536	Rotating space station simulator Patent [NASA-CASE-XLA-03127]	c 11	N71-10776
Electromagnetic mirror drive system [NASA-CASE-XLA-03724]	c 14	N69-27461	Thermal control of space vehicles Patent [NASA-CASE-XLA-01291]	c 33	N70-36617	Composite powerplant and shroud therefor Patent [NASA-CASE-XLA-01043]	c 28	N71-10780
Evaporant holder [NASA-CASE-XLA-03105]	c 15	N69-27483	Foam generator Patent [NASA-CASE-XLA-00838]	c 03	N70-36778	All-directional fastener Patent [NASA-CASE-XLA-01807]	c 15	N71-10799
Compensating radiometer [NASA-CASE-XLA-04556]	c 14	N69-27484	Parachute glider Patent [NASA-CASE-XLA-00898]	c 02	N70-36804	Hot air balloon deceleration and recovery system Patent [NASA-CASE-XLA-06824-2]	c 02	N71-11037
Tubular coupling having frangible connecting means [NASA-CASE-XLA-02854]	c 15	N69-27490	Production of high purity silicon carbide Patent [NASA-CASE-XLA-00158]	c 26	N70-36805	Control for flexible parawing Patent [NASA-CASE-XLA-06958]	c 02	N71-11038
Fatigue-resistant shear pin [NASA-CASE-XLA-09122]	c 15	N69-27505	Airplane take-off performance indicator Patent [NASA-CASE-XLA-00100]	c 14	N70-36807	Variable sweep aircraft Patent [NASA-CASE-XLA-03659]	c 02	N71-11041
Ablation sensor [NASA-CASE-XLA-01781]	c 14	N69-39975	Aerodynamic measuring device Patent [NASA-CASE-XLA-00481]	c 14	N70-36824	Translating horizontal tail Patent [NASA-CASE-XLA-08801-1]	c 02	N71-11043
Aeroflexible structures [NASA-CASE-XLA-06095]	c 01	N69-39981	Aircraft wheel spray drag alleviator Patent [NASA-CASE-XLA-01583]	c 02	N70-36825	Space suit pressure stabilizer Patent [NASA-CASE-XLA-05332]	c 05	N71-11194
Transient-compensated SCR inverter [NASA-CASE-XLA-08507]	c 09	N69-39984	Attitude orientation of spin-stabilized space vehicles Patent [NASA-CASE-XLA-00281]	c 21	N70-36943	Equipotential space suit Patent [NASA-CASE-LAR-10007-1]	c 05	N71-11195
Disk pack cleaning table Patent Application [NASA-CASE-LAR-10590-1]	c 15	N70-26819	Continuously operating induction plasma accelerator Patent [NASA-CASE-XLA-01354]	c 25	N70-36946	Recovery of potable water from human wastes in below-G conditions Patent [NASA-CASE-XLA-03213]	c 05	N71-11207
Folding apparatus Patent [NASA-CASE-XLA-00137]	c 15	N70-33180	Check valve assembly for a probe Patent [NASA-CASE-XLA-00128]	c 15	N70-37925	Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent [NASA-CASE-XLA-03104]	c 06	N71-11235
Infrared scanner Patent [NASA-CASE-XLA-00120]	c 21	N70-33181	Space capsule Patent [NASA-CASE-XLA-00149]	c 31	N70-37938	Imidazopyrrolone/imide copolymers Patent [NASA-CASE-XLA-08802]	c 06	N71-11238
Reentry vehicle leading edge Patent [NASA-CASE-XLA-00165]	c 31	N70-33242	Sandwich panel construction Patent [NASA-CASE-XLA-00349]	c 33	N70-37979	Adaptive compression of communication signals Patent [NASA-CASE-XLA-03076]	c 07	N71-11266
Motion picture camera for optical pyrometry Patent [NASA-CASE-XLA-00062]	c 14	N70-33254	Reflector space satellite Patent [NASA-CASE-XLA-00138]	c 31	N70-37981	Reentry communication by material addition Patent [NASA-CASE-XLA-01552]	c 07	N71-11284
Variable sweep wing configuration Patent [NASA-CASE-XLA-00230]	c 02	N70-33255	Variable-geometry winged reentry vehicle Patent [NASA-CASE-XLA-00241]	c 31	N70-37986	Cooperative Doppler radar system Patent [NASA-CASE-LAR-10403]	c 21	N71-11766
Variable sweep wing aircraft Patent [NASA-CASE-XLA-00221]	c 02	N70-33266	Vehicle parachute and equipment jettison system Patent [NASA-CASE-XLA-00195]	c 02	N70-38009	Supersonic aircraft Patent [NASA-CASE-XLA-04451]	c 02	N71-12243
Plasma accelerator Patent [NASA-CASE-XLA-00675]	c 25	N70-33267	Landing arrangement for aerospace vehicle Patent [NASA-CASE-XLA-00805]	c 31	N70-38010	Umbilical disconnect Patent [NASA-CASE-XLA-00711]	c 03	N71-12258
Survival couch Patent [NASA-CASE-XLA-00118]	c 05	N70-33285	Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent [NASA-CASE-XLA-00414]	c 07	N70-38200	Remote controlled tubular disconnect Patent [NASA-CASE-XLA-01396]	c 03	N71-12259
Landing arrangement for aerial vehicles Patent [NASA-CASE-XLA-00142]	c 02	N70-33286	Despin weight release Patent [NASA-CASE-XLA-00679]	c 15	N70-38601	Backpack carrier Patent [NASA-CASE-XLA-10056]	c 05	N71-12351
Wind tunnel airstream oscillating apparatus Patent [NASA-CASE-XLA-00112]	c 11	N70-33287	Manned space station Patent [NASA-CASE-XLA-00258]	c 31	N70-38676	Optical communications system Patent [NASA-CASE-XLA-01090]	c 07	N71-12389
Hydrofoil Patent [NASA-CASE-XLA-00229]	c 12	N70-33305	Missile stage separation indicator and stage initiator Patent [NASA-CASE-XLA-00791]	c 03	N70-39930	Analog to digital converter Patent [NASA-CASE-XLA-00670]	c 08	N71-12501
High intensity heat and light unit Patent [NASA-CASE-XLA-00141]	c 09	N70-33312	Apparatus for producing high purity silicon carbide crystals Patent [NASA-CASE-XLA-02057]	c 26	N70-40015	Integrated time shared instrumentation display Patent [NASA-CASE-XLA-01952]	c 08	N71-12507
Particle detection apparatus Patent [NASA-CASE-XLA-00135]	c 14	N70-33322	Miniature vibration isolator Patent [NASA-CASE-XLA-01019]	c 15	N70-40156	SCR blocking pulse gate amplifier Patent [NASA-CASE-XLA-07497]	c 09	N71-12514
Runway light Patent [NASA-CASE-XLA-00119]	c 11	N70-33329	Aircraft instrument Patent [NASA-CASE-XLA-00487]	c 14	N70-40157	Minimum induced drag airfoil body Patent [NASA-CASE-XLA-00755]	c 01	N71-13410
Spherical solid-propellant rocket motor Patent [NASA-CASE-XLA-00105]	c 28	N70-33331	Radiation direction detector including means for compensating for photocell aging Patent [NASA-CASE-XLA-00183]	c 14	N70-40239	Minimum induced drag airfoil body Patent [NASA-CASE-XLA-05828]	c 01	N71-13411
Jet aircraft configuration Patent [NASA-CASE-XLA-00087]	c 02	N70-33332	Passive communication satellite Patent [NASA-CASE-XLA-00210]	c 30	N70-40309	Mechanical stability augmentation system Patent [NASA-CASE-XLA-06339]	c 02	N71-13422
Aerial capsule emergency separation device Patent [NASA-CASE-XLA-00115]	c 03	N70-33343	Electrostatic plasma modulator for space vehicle re-entry communication Patent [NASA-CASE-XLA-01400]	c 07	N70-41331	Automatic balancing device Patent [NASA-CASE-LAR-10774]	c 10	N71-13545
Nozzle Patent [NASA-CASE-XLA-00154]	c 28	N70-33374	Micrometeoroid velocity measuring device Patent [NASA-CASE-XLA-00495]	c 14	N70-41332	Quick release connector Patent [NASA-CASE-XLA-01141]	c 15	N71-13789
Air frame drag balance Patent [NASA-CASE-XLA-00113]	c 14	N70-33386	Method of obtaining permanent record of surface flow phenomena Patent [NASA-CASE-XLA-01353]	c 14	N70-41366	Spacecraft experiment pointing and attitude control system Patent [NASA-CASE-XLA-05464]	c 21	N71-14132
Flexible foam erectable space structures Patent [NASA-CASE-XLA-00686]	c 31	N70-34135	Means for communicating through a layer of ionized gases Patent [NASA-CASE-XLA-01127]	c 07	N70-41372	Pressurized cell micrometeoroid detector Patent [NASA-CASE-XLA-00936]	c 14	N71-14996
Nose gear steering system for vehicle with main skids Patent [NASA-CASE-XLA-01804]	c 02	N70-34160	Quick release separation mechanism Patent [NASA-CASE-XLA-01441]	c 15	N70-41679	Crossed-field MHD plasma generator/ accelerator Patent [NASA-CASE-XLA-03374]	c 25	N71-15562
Surface roughness detector Patent [NASA-CASE-XLA-00203]	c 14	N70-34161	Flexible wing deployment device Patent [NASA-CASE-XLA-01220]	c 02	N70-41863	Adjustable attitude guide device Patent [NASA-CASE-XLA-07911]	c 15	N71-15571
Variable-span aircraft Patent [NASA-CASE-XLA-00166]	c 02	N70-34178	Self-sealing, unbonded, rocket motor nozzle closure Patent [NASA-CASE-XLA-02651]	c 28	N70-41967	Control system for rocket vehicles Patent [NASA-CASE-XLA-01163]	c 21	N71-15582
Dynamic precession damper for spin stabilized vehicles Patent [NASA-CASE-XLA-01989]	c 21	N70-34295	Fatigue testing device Patent [NASA-CASE-XLA-02131]	c 32	N70-42003	Excessive temperature warning system Patent [NASA-CASE-XLA-01926]	c 14	N71-15620
Erectable modular space station Patent [NASA-CASE-XLA-00678]	c 31	N70-34296				Alleviation of divergence during rocket launch Patent [NASA-CASE-XLA-00256]	c 31	N71-15663
Electric-arc heater Patent [NASA-CASE-XLA-00330]	c 33	N70-34540				Space capsule Patent [NASA-CASE-XLA-01332]	c 31	N71-15664
Ac power amplifier Patent Application [NASA-CASE-LAR-10218-1]	c 09	N70-34559				Variable geometry manned orbital vehicle Patent [NASA-CASE-XLA-03691]	c 31	N71-15674
Method and apparatus for producing a plasma Patent [NASA-CASE-XLA-00147]	c 25	N70-34661						
Gas actuated bolt disconnect Patent [NASA-CASE-XLA-00326]	c 03	N70-34667						

Payload/burned-out motor case separation system Patent			Method and apparatus for bonding a plastics sleeve onto a metallic body Patent		Laser calibrator Patent	
[NASA-CASE-XLA-05369]	c 31	N71-15687	[NASA-CASE-XLA-01262]	c 15	[NASA-CASE-XLA-03410]	c 16
Velocity package Patent			Hypersonic test facility Patent		Thermal protection ablation spray system Patent	
[NASA-CASE-XLA-01339]	c 31	N71-15692	[NASA-CASE-XLA-05378]	c 11	[NASA-CASE-XLA-04251]	c 18
File card marker Patent			Multilegged support system Patent		Direct lift control system Patent	
[NASA-CASE-XLA-02705]	c 08	N71-15908	[NASA-CASE-XLA-01326]	c 11	[NASA-CASE-LAR-10249-1]	c 02
Hypersonic test facility Patent			Nacelle afterbody for jet engines Patent		Light shield and infrared reflector for fatigue testing Patent	
[NASA-CASE-XLA-00378]	c 11	N71-15925	[NASA-CASE-XLA-10450]	c 28	[NASA-CASE-XLA-01782]	c 14
Test unit free-flight suspension system Patent			Canister closing device Patent		Dual resonant cavity absorption cell Patent	
[NASA-CASE-XLA-00939]	c 11	N71-15926	[NASA-CASE-XLA-01446]	c 15	[NASA-CASE-LAR-10305]	c 14
Reduced gravity simulator Patent			Ablation sensor Patent		Resilience testing device Patent	
[NASA-CASE-XLA-01787]	c 11	N71-16028	[NASA-CASE-XLA-01794]	c 33	[NASA-CASE-XLA-08254]	c 14
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent			Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent		Precipitation detector Patent	
[NASA-CASE-XLA-00284]	c 15	N71-16075	[NASA-CASE-XLA-03103]	c 25	[NASA-CASE-XLA-02619]	c 10
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent			Attitude control and damping system for spacecraft Patent		Instrument for measuring the dynamic behavior of liquids Patent	
[NASA-CASE-XLA-00302]	c 15	N71-16077	[NASA-CASE-XLA-02551]	c 21	[NASA-CASE-XLA-05541]	c 12
Separator Patent			Method of making inflatable honeycomb Patent		Arbitrarily shaped model survey system Patent	
[NASA-CASE-XLA-00415]	c 15	N71-16079	[NASA-CASE-XLA-03492]	c 15	[NASA-CASE-LAR-10098]	c 32
Omnidirectional multiple impact landing system Patent			Lunar penetrometer Patent		Dielectric molding apparatus Patent	
[NASA-CASE-XLA-09881]	c 31	N71-16085	[NASA-CASE-XLA-00934]	c 14	[NASA-CASE-LAR-10121-1]	c 15
Flexible ring slosh damping baffle Patent			Thermal control wall panel Patent		Method of making a solid propellant rocket motor Patent	
[NASA-CASE-LAR-10317-1]	c 32	N71-16103	[NASA-CASE-XLA-01243]	c 33	[NASA-CASE-XLA-04126]	c 28
Buoyant anti-slosh system Patent			Attitude sensor for space vehicles Patent		Dynamic vibration absorber Patent	
[NASA-CASE-XLA-04605]	c 32	N71-16106	[NASA-CASE-XLA-00793]	c 21	[NASA-CASE-LAR-10083-1]	c 15
Detector panels-micrometeoroid impact Patent			Omnidirectional microwave spacecraft antenna Patent		Rate augmented digital to analog converter Patent	
[NASA-CASE-XLA-05906]	c 31	N71-16221	[NASA-CASE-XLA-03114]	c 09	[NASA-CASE-XLA-07828]	c 08
Wind velocity probing device and method Patent			Thermal control panel Patent		High speed flight vehicle control Patent	
[NASA-CASE-XLA-02081]	c 20	N71-16281	[NASA-CASE-XLA-07728]	c 33	[NASA-CASE-XLA-08967]	c 02
Vibrating structure displacement measuring instrument Patent			Spacecraft airflow Patent		Suspended mass impact damper Patent	
[NASA-CASE-XLA-03135]	c 32	N71-16428	[NASA-CASE-XLA-02050]	c 31	[NASA-CASE-LAR-10193-1]	c 15
Viscous-pendulum-damper Patent			Station keeping of a gravity gradient stabilized satellite Patent		Active vibration isolator for flexible bodies Patent	
[NASA-CASE-XLA-02079]	c 12	N71-16894	[NASA-CASE-XLA-03132]	c 31	[NASA-CASE-LAR-10106-1]	c 15
Leak detector Patent			Semi-linear ball bearing Patent		Soldering device Patent	
[NASA-CASE-LAR-10323-1]	c 12	N71-17573	[NASA-CASE-XLA-02809]	c 15	[NASA-CASE-XLA-08911]	c 15
Logic AND gate for fluid circuits Patent			Heat sensing instrument Patent		Fringe counter for interferometers Patent	
[NASA-CASE-XLA-07391]	c 12	N71-17579	[NASA-CASE-XLA-01551]	c 14	[NASA-CASE-LAR-10204]	c 14
Contour surveying system Patent			Ablation sensor Patent		Wideband VCO with high phase stability Patent	
[NASA-CASE-XLA-08646]	c 14	N71-17586	[NASA-CASE-XLA-01791]	c 14	[NASA-CASE-XLA-03893]	c 10
Cable arrangement for rigid tethering Patent			Self-calibrating displacement transducer Patent		Plural position switch status and operativeness checker Patent	
[NASA-CASE-XLA-02332]	c 32	N71-17609	[NASA-CASE-XLA-00781]	c 09	[NASA-CASE-XLA-08799]	c 10
Thermal pump-compressor for space use Patent			Lateral displacement system for separated rocket stages Patent		Angular displacement indicating gas bearing support system Patent	
[NASA-CASE-XLA-00377]	c 33	N71-17610	[NASA-CASE-XLA-04804]	c 31	[NASA-CASE-XLA-09346]	c 15
Viscous pendulum damper Patent			Thermal control coating Patent		Solid state thermal control polymer coating Patent	
[NASA-CASE-LAR-10274-1]	c 14	N71-17626	[NASA-CASE-XLA-01995]	c 18	[NASA-CASE-XLA-01745]	c 33
Self supporting space vehicle Patent			Method of making an inflatable panel Patent		Specialized halogen generator for purification of water Patent	
[NASA-CASE-XLA-00117]	c 31	N71-17680	[NASA-CASE-XLA-03497]	c 15	[NASA-CASE-XLA-08913]	c 14
Technique for control of free-flight rocket vehicles Patent			Variable duration pulse integrator Patent		Antenna design for surface wave suppression Patent	
[NASA-CASE-XLA-00937]	c 31	N71-17691	[NASA-CASE-XLA-01219]	c 10	[NASA-CASE-XLA-07772]	c 07
Hydraulic grip Patent			Impact energy absorber Patent		Analog to digital converter tester Patent	
[NASA-CASE-XLA-05100]	c 15	N71-17696	[NASA-CASE-XLA-01530]	c 14	[NASA-CASE-XLA-06713]	c 14
Heat protection apparatus Patent			Micrometeoroid penetration measuring device Patent		Method of making pressurized panel Patent	
[NASA-CASE-XLA-00892]	c 33	N71-17897	[NASA-CASE-XLA-00941]	c 14	[NASA-CASE-XLA-08916]	c 15
Thermopile vacuum gage tube simulator Patent			Combined optical attitude and altitude indicating instrument Patent		Maksutov spectrograph Patent	
[NASA-CASE-XLA-02758]	c 14	N71-18481	[NASA-CASE-XLA-01907]	c 14	[NASA-CASE-XLA-10402]	c 14
Ionization vacuum gauge with all but the end of the ion collector shielded Patent			Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent		Two component bearing Patent	
[NASA-CASE-XLA-07424]	c 14	N71-18482	[NASA-CASE-XLA-01584]	c 14	[NASA-CASE-XLA-00013]	c 15
Safe-arm initiator Patent			Variable width pulse integrator Patent		Digital pulse width selection circuit Patent	
[NASA-CASE-LAR-10372]	c 09	N71-18599	[NASA-CASE-XLA-03356]	c 10	[NASA-CASE-XLA-07788]	c 09
Controlled glass bead peening Patent			Leading edge curvature based on convective heating Patent		Magnetically controlled plasma accelerator Patent	
[NASA-CASE-XLA-07390]	c 15	N71-18616	[NASA-CASE-XLA-01486]	c 01	[NASA-CASE-XLA-00327]	c 25
Exclusive-Or digital logic module Patent			Measurement of time differences between luminous events Patent		Boring bar drive mechanism Patent	
[NASA-CASE-XLA-07732]	c 08	N71-18751	[NASA-CASE-XLA-01987]	c 23	[NASA-CASE-XLA-03661]	c 15
Slosh alleviator Patent			Method for measuring the characteristics of a gas Patent		Wind tunnel model damper Patent	
[NASA-CASE-XLA-05749]	c 15	N71-19569	[NASA-CASE-XLA-03375]	c 16	[NASA-CASE-XLA-09480]	c 11
G conditioning suit Patent			Laser grating interferometer Patent		Variable geometry rotor system	
[NASA-CASE-XLA-02898]	c 05	N71-20268	[NASA-CASE-XLA-04295]	c 16	[NASA-CASE-LAR-10557]	c 02
Dosimeter for high levels of absorbed radiation Patent			Automatic fatigue test temperature programmer Patent		Flared tube strainer	
[NASA-CASE-XLA-03645]	c 14	N71-20430	[NASA-CASE-XLA-02059]	c 33	[NASA-CASE-XLA-05056]	c 15
Flow field simulation Patent			Ring wing tension vehicle Patent		Impact measuring technique	
[NASA-CASE-LAR-11138]	c 12	N71-20436	[NASA-CASE-XLA-04901]	c 31	[NASA-CASE-LAR-10913]	c 14
Variable pulse width multiplier Patent			Process for applying black coating to metals Patent		Technique of duplicating fragile core	
[NASA-CASE-XLA-02850]	c 09	N71-20447	[NASA-CASE-XLA-06199]	c 15	[NASA-CASE-XLA-07829]	c 15
Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent			Velocity limiting safety system Patent		Tube fabricating process	
[NASA-CASE-XLA-06232]	c 25	N71-20563	[NASA-CASE-XLA-07473]	c 15	[NASA-CASE-LAR-10203-1]	c 15
Null device for hand controller Patent			Strain coupled servo control system Patent		Air bearing	
[NASA-CASE-XLA-01808]	c 15	N71-20740	[NASA-CASE-XLA-08530]	c 32	[NASA-CASE-WLP-10002]	c 15
Event recorder Patent			Method of temperature compensating semiconductor strain gages Patent		Extensometer frame	
[NASA-CASE-XLA-01832]	c 14	N71-21006	[NASA-CASE-XLA-04555-1]	c 14	[NASA-CASE-XLA-10322]	c 15
Inflatable support structure Patent			Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent		Split range transducer	
[NASA-CASE-XLA-01731]	c 32	N71-21045	[NASA-CASE-XLA-02810]	c 14	[NASA-CASE-XLA-11189]	c 10
Fast opening diaphragm Patent			Method of plating copper on aluminum Patent		Stereo photomicrography system	
[NASA-CASE-XLA-03660]	c 15	N71-21060	[NASA-CASE-XLA-08966-1]	c 17	[NASA-CASE-LAR-10176-1]	c 14
Ellipsograph for pantograph Patent					Radar calibration sphere	
[NASA-CASE-XLA-03102]	c 14	N71-21079			[NASA-CASE-XLA-11154]	c 07
Random function tracer Patent					Recorder using selective noise filter	
[NASA-CASE-XLA-01401]	c 15	N71-21179			[NASA-CASE-ERC-10112]	c 07
					Stacked array of omnidirectional antennas	
					[NASA-CASE-LAR-10545-1]	c 09
					Electro-mechanical sine/cosine generator	
					[NASA-CASE-LAR-10503-1]	c 09

Lathe tool bit and holder for machining fiberglass materials				Electronic strain-level counter				Apparatus for inserting and removing specimens from high temperature vacuum furnaces			
[NASA-CASE-XLA-10470]	c 15	N72-21489		[NASA-CASE-LAR-10756-1]	c 32	N73-26910		[NASA-CASE-LAR-10841-1]	c 31	N74-27900	
Pressure operated electrical switch responsive to a pressure decrease after a pressure increase				Nondestructive spot test method for magnesium and magnesium alloys				Grinding arrangement for ball nose milling cutters			
[NASA-CASE-LAR-10137-1]	c 09	N72-22204		[NASA-CASE-LAR-10953-1]	c 17	N73-27446		[NASA-CASE-LAR-10450-1]	c 37	N74-27905	
Variable geometry wind tunnels				Ablation article and method				Method of repairing discontinuity in fiberglass structures			
[NASA-CASE-XLA-07430]	c 11	N72-22246		[NASA-CASE-LAR-10439-1]	c 33	N73-27796		[NASA-CASE-LAR-10416-1]	c 24	N74-30001	
Magnifying scratch gauge force transducer				Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds				Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft			
[NASA-CASE-LAR-10496-1]	c 14	N72-22437		[NASA-CASE-LAR-10612-1]	c 12	N73-28144		[NASA-CASE-LAR-10753-1]	c 08	N74-30421	
Star image motion compensator				Pressurized panel				Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot			
[NASA-CASE-LAR-10523-1]	c 14	N72-22444		[NASA-CASE-XLA-08916-2]	c 14	N73-28487		[NASA-CASE-LAR-10550-1]	c 09	N74-30597	
Absolute focus lock for microscopes				Apparatus for aiding a pilot in avoiding a midair collision between aircraft				Centrifugal lyophobic separator			
[NASA-CASE-LAR-10184]	c 14	N72-22445		[NASA-CASE-LAR-10717-1]	c 21	N73-30641		[NASA-CASE-LAR-10194-1]	c 34	N74-30608	
Cryogenic feedthrough				Exposure interlock for oscilloscope cameras				Variably positioned guide vanes for aerodynamic choking			
[NASA-CASE-LAR-10031]	c 15	N72-22484		[NASA-CASE-LAR-10319-1]	c 14	N73-32322		[NASA-CASE-LAR-10642-1]	c 07	N74-31270	
A technique for breaking ice in the path of a ship				Meteoroid detector				Noise suppressor			
[NASA-CASE-LAR-10815-1]	c 16	N72-22520		[NASA-CASE-LAR-10483-1]	c 14	N73-32327		[NASA-CASE-LAR-11141-1]	c 07	N74-32418	
One hand backpack harness				Lightweight, variable solidity knitted parachute fabric				Measuring probe position recorder			
[NASA-CASE-LAR-10102-1]	c 05	N72-23085		[NASA-CASE-LAR-10776-1]	c 02	N74-10034		[NASA-CASE-LAR-10806-1]	c 35	N74-32877	
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT				Technique for extending the frequency range of digital dividers				Stagnation pressure probe			
[NASA-CASE-LAR-10320-1]	c 09	N72-23172		[NASA-CASE-LAR-10730-1]	c 33	N74-10223		[NASA-CASE-LAR-11139-1]	c 35	N74-32878	
Omnidirectional slot antenna for mounting on cylindrical space vehicle				Fluid pressure amplifier and system				Molding apparatus			
[NASA-CASE-LAR-10163-1]	c 09	N72-25247		[NASA-CASE-LAR-10868-1]	c 33	N74-11050		[NASA-CASE-LAR-10489-2]	c 31	N74-32920	
Half effect transducer				Method of making pressure tight seal for super alloy				Remote fire stack igniter			
[NASA-CASE-LAR-10620-1]	c 09	N72-25255		[NASA-CASE-LAR-10170-1]	c 37	N74-11301		[NASA-CASE-MFS-21675-1]	c 25	N74-33378	
Radio frequency filter device				System for calibrating pressure transducer				Open tube guideway for high speed air cushioned vehicles			
[NASA-CASE-XLA-02609]	c 09	N72-25256		[NASA-CASE-LAR-10910-1]	c 35	N74-13132		[NASA-CASE-LAR-10256-1]	c 85	N74-34672	
Parametric amplifiers with idler circuit feedback				Molding process for imidazopyrrolone polymers				Fast scan control for deflection type mass spectrometers			
[NASA-CASE-LAR-10253-1]	c 09	N72-25258		[NASA-CASE-LAR-10547-1]	c 31	N74-13177		[NASA-CASE-LAR-11428-1]	c 35	N74-34857	
Variable angle tube holder				Lyophilized spore dispenser				Apparatus for microbiological sampling			
[NASA-CASE-LAR-10507-1]	c 11	N72-25284		[NASA-CASE-LAR-10544-1]	c 37	N74-13178		[NASA-CASE-LAR-11069-1]	c 35	N75-12272	
Low mass truss structure				Transmitting and reflecting diffuser				Method of making an explosively welded scarf joint			
[NASA-CASE-LAR-10546-1]	c 11	N72-25287		[NASA-CASE-LAR-10385-2]	c 70	N74-13436		[NASA-CASE-LAR-11211-1]	c 37	N75-12326	
Liquid waste feed system				Evacuated displacement compression molding				Determining particle density using known material Hugoniot curves			
[NASA-CASE-LAR-10365-1]	c 05	N72-27102		[NASA-CASE-LAR-10782-1]	c 31	N74-14133		[NASA-CASE-LAR-11059-1]	c 76	N75-12810	
Microcircuit negative cutter				Modification of one man life raft				Method for making conductors for ferrite memory arrays			
[NASA-CASE-XLA-09843]	c 15	N72-27485		[NASA-CASE-LAR-10241-1]	c 54	N74-14845		[NASA-CASE-LAR-10994-1]	c 24	N75-13032	
Light regulator				Attitude sensor				Evacuated, displacement compression mold			
[NASA-CASE-LAR-10836-1]	c 26	N72-27784		[NASA-CASE-LAR-10586-1]	c 19	N74-15089		[NASA-CASE-LAR-10782-2]	c 31	N75-13111	
Linear explosive comparison				Mossbauer spectrometer radiation detector				Automatic inoculating apparatus			
[NASA-CASE-LAR-10800-1]	c 33	N72-27959		[NASA-CASE-LAR-11155-1]	c 35	N74-15091		[NASA-CASE-LAR-11074-1]	c 51	N75-13502	
Spherical measurement device				In situ transfer standard for ultrahigh vacuum gage calibration				Automatic focus control for facsimile cameras			
[NASA-CASE-XLA-06683]	c 14	N72-28436		[NASA-CASE-LAR-10862-1]	c 35	N74-15092		[NASA-CASE-LAR-11213-1]	c 35	N75-15014	
Method of making semiconductor p-n junction stress and strain sensor				Dual measurement ablation sensor				Kinesthetic control simulator			
[NASA-CASE-XLA-04980-2]	c 14	N72-28438		[NASA-CASE-LAR-10105-1]	c 34	N74-15652		[NASA-CASE-LAR-10276-1]	c 09	N75-15662	
Screened circuit capacitors				Ejectable underwater sound source recovery assembly				Electrostatic measurement system			
[NASA-CASE-LAR-10294-1]	c 26	N72-28762		[NASA-CASE-LAR-10595-1]	c 35	N74-16135		[NASA-CASE-MFS-22129-1]	c 33	N75-18477	
Deposition apparatus				Wind tunnel model and method				Automatic liquid inventory collecting and dispensing unit			
[NASA-CASE-LAR-10541-1]	c 15	N72-32487		[NASA-CASE-LAR-10812-1]	c 09	N74-17955		[NASA-CASE-LAR-11071-1]	c 35	N75-19611	
Lift balancing device				High field CdS detector for infrared radiation				Vacuum leak detector			
[NASA-CASE-LAR-10348-1]	c 11	N73-12264		[NASA-CASE-LAR-11027-1]	c 35	N74-18088		[NASA-CASE-LAR-11237-1]	c 35	N75-19612	
Air removal device				Method of fabricating an article with cavities				Spectrometer integrated with a facsimile camera			
[NASA-CASE-XLA-08914]	c 15	N73-12492		[NASA-CASE-LAR-10318-1]	c 31	N74-18089		[NASA-CASE-LAR-11207-1]	c 35	N75-19613	
Nondestructive spot test method for titanium and titanium alloys				Apparatus for remote handling of materials				Instrumentation for measurement of aircraft noise and sonic boom			
[NASA-CASE-LAR-10539-1]	c 17	N73-12547		[NASA-CASE-LAR-10634-1]	c 37	N74-18123		[NASA-CASE-LAR-11173-1]	c 35	N75-19614	
Logical function generator				Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article				Laser head for simultaneous optical pumping of several dye lasers			
[NASA-CASE-XLA-05099]	c 09	N73-13209		[NASA-CASE-LAR-10489-1]	c 31	N74-18124		[NASA-CASE-LAR-11341-1]	c 36	N75-19655	
Ferry system				Method for determining thermo-physical properties of specimens				High lift aircraft			
[NASA-CASE-LAR-10574-1]	c 11	N73-13257		[NASA-CASE-LAR-11053-1]	c 25	N74-18551		[NASA-CASE-LAR-11252-1]	c 05	N75-25914	
Flow velocity and directional instrument				Anti-buckling fatigue test assembly				Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements			
[NASA-CASE-LAR-10855-1]	c 14	N73-13415		[NASA-CASE-LAR-10426-1]	c 09	N74-19528		[NASA-CASE-LAR-11144-1]	c 25	N75-26043	
Vortex breech high pressure gas generator				Reeling system				Resonant waveguide stark cell			
[NASA-CASE-LAR-10549-1]	c 31	N73-13898		[NASA-CASE-LAR-10129-2]	c 37	N74-20063		[NASA-CASE-LAR-11352-1]	c 33	N75-26245	
Butt welder for fine gauge tungsten/rhenium thermocouple wire				A synchronous binary array divider				Fluid control apparatus and method			
[NASA-CASE-LAR-10103-1]	c 15	N73-14468		[NASA-CASE-ERC-10180-1]	c 60	N74-20836		[NASA-CASE-LAR-11110-1]	c 34	N75-26282	
Method of detecting oxygen in a gas				Orbital and entry tracking accessory for globes				Electrolytic cell structure			
[NASA-CASE-LAR-10668-1]	c 06	N73-16106		[NASA-CASE-LAR-10626-1]	c 19	N74-21015		[NASA-CASE-LAR-11042-1]	c 33	N75-27252	
Combustion detector				Digital controller for a Baum folding machine				Automatic microbial transfer device			
[NASA-CASE-LAR-10739-1]	c 14	N73-16484		[NASA-CASE-LAR-10688-1]	c 37	N74-21056		[NASA-CASE-LAR-11354-1]	c 35	N75-27330	
Laser communication system for controlling several functions at a location remote to the laser				Totally confined explosive welding				Polyimide adhesives			
[NASA-CASE-LAR-10311-1]	c 16	N73-16536		[NASA-CASE-LAR-10941-1]	c 37	N74-21057		[NASA-CASE-LAR-11397-1]	c 27	N75-29263	
Apparatus for photographing meteors				Method of fabricating an object with a thin wall having a precisely shaped slit				Bonding method in the manufacture of continuous regression rate sensor devices			
[NASA-CASE-LAR-10226-1]	c 14	N73-19419		[NASA-CASE-LAR-10409-1]	c 31	N74-21059		[NASA-CASE-LAR-10337-1]	c 24	N75-30260	
Zero gravity liquid mixer				Deployable pressurized cell structure for a micrometeoroid detector				Meteoroid impact position locator aid for manned space station			
[NASA-CASE-LAR-10195-1]	c 15	N73-19458		[NASA-CASE-LAR-10295-1]	c 35	N74-21062		[NASA-CASE-LAR-10629-1]	c 35	N75-33367	
Rate data encoder				Means for accommodating large overstrain in lead wires				Measurement of gas production of microorganisms			
[NASA-CASE-LAR-10128-1]	c 08	N73-20217		[NASA-CASE-LAR-10168-1]	c 33	N74-22865		[NASA-CASE-LAR-11326-1]	c 35	N75-33368	
Function generator for synthesizing complex vibration mode patterns				Bonded joint and method				Self-supporting strain transducer			
[NASA-CASE-LAR-10310-1]	c 10	N73-20253		[NASA-CASE-LAR-10900-1]	c 37	N74-23064		[NASA-CASE-LAR-11263-1]	c 35	N75-33369	
Infrared horizon locator				Light shield and cooling apparatus				Annular momentum control device used for stabilization of space vehicles and the like			
[NASA-CASE-LAR-10726-1]	c 14	N73-20475		[NASA-CASE-LAR-10089-1]	c 34	N74-23066		[NASA-CASE-LAR-11051-1]	c 15	N76-14158	
Light intensity strain analysis				Method of laminating structural members							
[NASA-CASE-LAR-10765-1]	c 32	N73-20740		[NASA-CASE-XLA-11028-1]	c 24	N74-27035					
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds				Rocket having barium release system to create ion clouds in the upper atmosphere							
[NASA-CASE-LAR-10578-1]	c 12	N73-25262		[NASA-CASE-LAR-10670-2]	c 15	N74-27360					
Cable restraint											
[NASA-CASE-LAR-10129-1]	c 15	N73-25512									

C-31

Small conductive particle sensor			Polyphenylquinoxalines containing pendant		Thermoset-thermoplastic aromatic polyamide containing		
[NASA-CASE-LAR-12552-1]	c 35	N82-11431	phenylethynyl and ethynyl groups		N-propargyl groups		
Large volume multiple-path nuclear pumped laser			[NASA-CASE-LAR-12838-1]	c 27	[NASA-CASE-LAR-12723-1]	c 27	N85-20123
[NASA-CASE-LAR-12592-1]	c 36	N82-13415	Solvent resistant thermoplastic aromatic		Process for preparing solvent resistant, thermoplastic		
Moving body velocity arresting line			poly(imidesulfone) and process for preparing same		aromatic poly(imidesulfone)		
[NASA-CASE-LAR-12372-1]	c 37	N82-18601	[NASA-CASE-LAR-12858-1]	c 27	[NASA-CASE-LAR-12858-2]	c 27	N85-20124
Air removal device			Heating and cooling system		Hot melt adhesive attachment pad		
[NASA-CASE-XLA-08914-2]	c 25	N82-21269	[NASA-CASE-LAR-12393-1]	c 34	[NASA-CASE-LAR-12894-1]	c 27	N85-20125
Metric half-span model support system			Variable anodic thermal control coating		Miniature electrooptical air flow sensor		
[NASA-CASE-LAR-12441-1]	c 09	N82-23254	[NASA-CASE-LAR-12719-1]	c 44	[NASA-CASE-LAR-13065-1]	c 35	N85-20295
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands			Explosively activated egress area		Extended moment arm anti-spin device		
[NASA-CASE-LAR-12412-1]	c 08	N82-24205	[NASA-CASE-LAR-12624-1]	c 01	[NASA-CASE-LAR-12979-1]	c 05	N85-21147
Image readout device with electronically variable spatial resolution			Error correction method and apparatus for electronic timepieces		Continuous laminar smoke generator		
[NASA-CASE-LAR-12633-1]	c 33	N82-24416	[NASA-CASE-LAR-12654-1]	c 33	[NASA-CASE-LAR-13014-1]	c 09	N85-21178
Hot foil transducer skin friction sensor			Family of airfoil shapes for rotating blades		Elastomer toughened polyimide adhesives		
[NASA-CASE-LAR-12321-1]	c 35	N82-24470	[NASA-CASE-LAR-12843-1]	c 02	[NASA-CASE-LAR-12775-2]	c 27	N85-21349
Continuous self-locking spiral wound seal			Metal matrix composite structural panel construction		Heat pipe cooled probe		
[NASA-CASE-LAR-12315-1]	c 37	N82-24490	[NASA-CASE-LAR-12807-1]	c 24	[NASA-CASE-LAR-12588-1]	c 34	N85-21568
Solar engine			Solar powered aircraft		Reusable thermal cycling clamp		
[NASA-CASE-LAR-12148-1]	c 44	N82-24640	[NASA-CASE-LAR-12615-1]	c 05	[NASA-CASE-LAR-12868-1]	c 37	N85-21651
Fuselage structure using advanced technology fiber reinforced composites			Low energy electron magnetometer using a monoenergetic electron beam		Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom		
[NASA-CASE-LAR-11688-1]	c 24	N82-26384	[NASA-CASE-LAR-12706-1]	c 35	[NASA-CASE-LAR-13262-1]	c 23	N85-28973
Electrically conductive palladium containing polyimide films			Ride quality meter		Induction heating gun		
[NASA-CASE-LAR-12705-1]	c 25	N82-26396	[NASA-CASE-LAR-12882-1]	c 35	[NASA-CASE-LAR-13181-1]	c 31	N85-29083
Digital demodulator			Vertical shaft windmill		Daze fasteners		
[NASA-CASE-LAR-12659-1]	c 33	N82-26570	[NASA-CASE-LAR-12923-1]	c 37	[NASA-CASE-LAR-13009-1]	c 37	N85-29285
One-step dual purpose joining technique			Magnetic heading reference		Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability		
[NASA-CASE-LAR-12595-1]	c 33	N82-26571	[NASA-CASE-LAR-12638-1]	c 04	[NASA-CASE-LAR-13040-1]	c 37	N85-29286
Liquid-immersible electrostatic ultrasonic transducer			Hot melt recharge system		Dual differential interferometer		
[NASA-CASE-LAR-12465-1]	c 33	N82-26572	[NASA-CASE-LAR-12881-1]	c 27	[NASA-CASE-LAR-12966-1]	c 35	N85-30282
Film advance indicator			Self-correcting electronically scanned pressure sensor		Mechanical fastener		
[NASA-CASE-LAR-12474-1]	c 35	N82-26628	[NASA-CASE-LAR-12686-1]	c 35	[NASA-CASE-LAR-12738-2]	c 37	N85-30335
Means for controlling aerodynamically induced twist			Apparatus and method for jet noise suppression		Self-locking mechanical center joint		
[NASA-CASE-LAR-12175-1]	c 05	N82-28279	[NASA-CASE-LAR-11903-2]	c 71	[NASA-CASE-LAR-12864-1]	c 37	N85-30336
Apparatus and process for microbial detection and enumeration			Missile rolling tail brake torque system		Method for thermal monitoring subcutaneous tissue		
[NASA-CASE-LAR-12709-1]	c 35	N82-28604	[NASA-CASE-LAR-12751-1]	c 15	[NASA-CASE-LAR-13028-1]	c 52	N85-30618
Method for forming pyrrone molding powders and products of said method			Rotary target V-block		Method for determining the point of zero zeta potential of semiconductor		
[NASA-CASE-LAR-10423-1]	c 23	N82-29358	[NASA-CASE-LAR-12007-3]	c 35	[NASA-CASE-LAR-12893-1]	c 76	N85-30923
Acoustic tooth cleaner			Solar pumped laser		Process for improving moisture resistance of epoxy resins by addition of chromium ions		
[NASA-CASE-LAR-12471-1]	c 52	N82-29862	[NASA-CASE-LAR-12870-1]	c 36	[NASA-CASE-LAR-13226-1]	c 27	N85-34282
Pyroelectric detector arrays			Powder fed sheared dispersal particle generator		Tensile testing apparatus		
[NASA-CASE-LAR-12363-1]	c 35	N82-31659	[NASA-CASE-LAR-12785-1]	c 37	[NASA-CASE-LAR-13243-1]	c 35	N85-34375
Decoupler pylon: wing/store flutter suppressor			Slotted variable camber flap		Wingtip vortex propeller		
[NASA-CASE-LAR-12468-1]	c 08	N82-32373	[NASA-CASE-LAR-12541-1]	c 05	[NASA-CASE-LAR-13019-1]	c 07	N85-35194
Multilwall thermal protection system			Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups		Dual towline spin-recovery device		
[NASA-CASE-LAR-12620-1]	c 24	N82-32417	[NASA-CASE-LAR-12723-2]	c 27	[NASA-CASE-LAR-13076-1]	c 08	N85-35200
Scanning afocal laser velocimeter projection lens system			Ethynyl and substituted ethynyl-terminated polysulfones		Technique for measuring gas conversion factors		
[NASA-CASE-LAR-12328-1]	c 36	N82-32712	[NASA-CASE-LAR-12931-1]	c 27	[NASA-CASE-LAR-13220-1]	c 34	N86-12547
Mechanical end joint system for structural column elements			Polyphenylene ethers with imide linking groups		Aerospace vehicle		
[NASA-CASE-LAR-12482-1]	c 37	N82-32732	[NASA-CASE-LAR-12980-1]	c 27	[NASA-CASE-LAR-13155-1]	c 05	N86-19310
Photocapacitive image converter			Ultrasonic transducer with Gaussian radial pressure distribution		Process of end-capping a polyimide system		
[NASA-CASE-LAR-12513-1]	c 44	N82-32841	[NASA-CASE-LAR-12967-1]	c 35	[NASA-CASE-LAR-13135-1]	c 27	N86-19456
Pulsed phase locked loop strain monitor			Acoustic ground impedance meter		Sequentially deployable maneuverable tetrahedral beam		
[NASA-CASE-LAR-12772-1]	c 33	N83-16626	[NASA-CASE-LAR-12995-1]	c 35	[NASA-CASE-LAR-13098-1]	c 31	N86-19479
Ampoule sealing apparatus and process			Photoelectrochemical cells including chalcogenophosphate photoelectrodes		High temperature polyimide film laminates and process for preparation thereof		
[NASA-CASE-LAR-12847-1]	c 33	N83-16633	[NASA-CASE-LAR-12958-1]	c 44	[NASA-CASE-LAR-13384-1]	c 27	N86-20561
Sound shield			Heads up display		Auto covariance computer		
[NASA-CASE-LAR-12883-1]	c 71	N83-17235	[NASA-CASE-LAR-12630-1]	c 06	[NASA-CASE-LAR-12968-1]	c 60	N86-21154
Modified spiral wound retaining ring			Shell tile thermal protection system		Ultrasonic angle beam standard reflector		
[NASA-CASE-LAR-12361-1]	c 37	N83-19091	[NASA-CASE-LAR-12862-1]	c 27	[NASA-CASE-LAR-13153-1]	c 71	N86-21276
Miniature spectrally selective dosimeter			Strain gage calibration		Ethynyl and substituted ethynyl-terminated polysulfones		
[NASA-CASE-LAR-12469-1]	c 35	N83-21311	[NASA-CASE-LAR-12743-1]	c 35	[NASA-CASE-LAR-12931-2]	c 27	N86-21675
Aeroelastic instability stoppers for wind tunnel models			Directional gear ratio transmissions		Drop foot corrective device		
[NASA-CASE-LAR-12458-1]	c 44	N83-21503	[NASA-CASE-LAR-12644-1]	c 37	[NASA-CASE-LAR-12259-2]	c 54	N86-22112
Aeroelastic instability stoppers for wind tunnel models			Tubing and cable cutting tool		Poly(carbonate-imide) polymer		
[NASA-CASE-LAR-12720-1]	c 44	N83-21504	[NASA-CASE-LAR-12786-1]	c 37	[NASA-CASE-LAR-13292-1]	c 27	N86-24841
Pyroelectric detector arrays			Radionuclide counting technique for measuring wind velocity and direction		Synchronously deployable truss structure		
[NASA-CASE-LAR-12363-2]	c 33	N83-24763	[NASA-CASE-LAR-12971-1]	c 47	[NASA-CASE-LAR-13117-1]	c 37	N86-25789
Elastomer toughened polyimide adhesives			Medical clip		Latching mechanism for deployable/re-stowable columns useful in satellite construction		
[NASA-CASE-LAR-12775-1]	c 27	N83-28240	[NASA-CASE-LAR-12650-1]	c 52	[NASA-CASE-LAR-13169-1]	c 37	N86-25791
Solar driven liquid metal MHD power generator			Process of making medical clip		Aircraft liftemeter		
[NASA-CASE-LAR-12495-1]	c 44	N83-28573	[NASA-CASE-LAR-12650-2]	c 52	[NASA-CASE-LAR-12518-1]	c 06	N86-27280
Stirling cycle cryogenic cooler			Shapes for rotating airfoils		Sulfone-ester polymers containing pendent ethynyl groups		
[US-PATENT-4,389,849]	c 44	N83-28574	[NASA-CASE-LAR-12396-1]	c 02	[NASA-CASE-LAR-13316-1]	c 27	N86-27450
Instrument for determining coincidence and elapse time between independent sources of random sequential events			A system for controlling the oxygen content of a gas produced by combustion		Optimized bolted joint		
[NASA-CASE-LAR-12531-1]	c 35	N83-29651	[NASA-CASE-LAR-13257-1]	c 25	[NASA-CASE-LAR-13250-1]	c 37	N86-27630
Flow resistivity instrument			Helicopter anti-torque system using strakes		Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines		
[NASA-CASE-LAR-13053-1]	c 43	N83-29783	[NASA-CASE-LAR-13233-1]	c 05	[NASA-CASE-LAR-13353-1]	c 27	N86-29039
Vibration isolation and pressure compensation apparatus for sensitive instrumentation			Curved cap corrugated sheet		Nebulization reflux concentrator		
[NASA-CASE-LAR-12728-1]	c 35	N83-32026	[NASA-CASE-LAR-12884-1]	c 18	[NASA-CASE-LAR-13254-1CU]	c 35	N86-29174
Fixture for environmental exposure of structural materials under compression load			Model mount system for testing flutter		Long gain length solar pumped box laser		
[NASA-CASE-LAR-12602-1]	c 39	N83-32081	[NASA-CASE-LAR-12950-1]	c 09	[NASA-CASE-LAR-13256-1]	c 36	N86-29204
			Process for improving mechanical properties of epoxy resins by addition of cobalt ions		Process for preparing highly optically transparent/colorless aromatic polyimide film		
			[NASA-CASE-LAR-13230-1]	c 24	[NASA-CASE-LAR-13351-1]	c 27	N86-31727
			Leading edge flap system for aircraft control augmentation				
			[NASA-CASE-LAR-12787-2]	c 08			N85-19985

Polyarylene ethers with improved properties			Space vehicle thermal rejection system			Method and circuit for controlling the evolution time interval of a laser output pulse		
[NASA-CASE-LAR-13555-1]	c 23	N86-32526	[NASA-CASE-LAR-13738-1]	c 18	N87-29586	[NASA-CASE-LAR-13772-1]	c 36	N89-28816
Remotely controllable mixing system			Elevated temperature aluminum alloys			Method and circuit for shaping laser output pulses		
[NASA-CASE-MFS-28153-1]	c 31	N86-32589	[NASA-CASE-LAR-13632-1]	c 26	N87-29650	[NASA-CASE-LAR-14203-1]	c 36	N89-28817
Two-axis, self-nulling skin friction balance			Combined riblet and lebu drag reduction system			Serrated trailing edges for improving lift and drag characteristics of lifting surfaces		
[NASA-CASE-LAR-13294-1]	c 35	N86-32696	[NASA-CASE-LAR-13286-1]	c 02	N88-14071	[NASA-CASE-LAR-13870-1]	c 05	N90-15094
Deployable M-braced truss structure			Lightning discharge protection rod			Novel polyimide compositions based on 4,4': isophthaloyldiphthalic anhydride (IDPA)		
[NASA-CASE-LAR-13081-1]	c 37	N86-32737	[NASA-CASE-LAR-13470-1]	c 03	N88-14083	[NASA-CASE-LAR-14194-1]	c 24	N90-15148
Remote pivot decoupler pylon: Wing/store flutter suppressor			Tool and process for miniature explosive joining of tubes			Ignitability test method and apparatus		
[NASA-CASE-LAR-13173-1]	c 05	N87-14314	[NASA-CASE-LAR-13662-1]	c 37	N88-14359	[NASA-CASE-LAR-13996-1-SB]	c 25	N90-15161
The 5-(4-Ethynylphenoxy) isophthalic chloride			Device for measuring hole elongation in a bolted joint			Wet spinning of solid polyamic acid fibers		
[NASA-CASE-LAR-13316-2]	c 27	N87-14515	[NASA-CASE-LAR-13453-1]	c 37	N88-14361	[NASA-CASE-LAR-14162-1]	c 27	N90-15259
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof			Polyether-polyester graft copolymer			Polyimides with carbonyl and ether connecting groups between the aromatic rings		
[NASA-CASE-LAR-13318-1]	c 27	N87-14516	[NASA-CASE-LAR-13447-1]	c 27	N88-18725	[NASA-CASE-LAR-14001-1]	c 27	N90-15260
Double reference pulsed phase locked loop			Crossflow vorticity sensor			A two-stage earth-to-orbit transport with translating oblique wings for booster recovery		
[NASA-CASE-LAR-13310-1]	c 32	N87-14559	[NASA-CASE-LAR-13436-1-CU]	c 02	N88-23759	[NASA-CASE-LAR-14156-1]	c 16	N90-16781
Vibration-free Raman Doppler velocimeter			Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag			Copolyimide with a combination of flexibilizing groups		
[NASA-CASE-LAR-13268-1]	c 35	N87-14669	[NASA-CASE-LAR-13511-1]	c 05	N88-23765	[NASA-CASE-LAR-13821-1]	c 27	N90-16950
Geometries for roughness shapes in laminar flow			Helicopter anti-torque system using fuselage strakes			Skin friction balance		
[NASA-CASE-LAR-13255-1]	c 02	N87-16793	[NASA-CASE-LAR-13630-1]	c 08	N88-23809	[NASA-CASE-LAR-13710-1]	c 35	N90-17117
Over-the-wing propeller			Space spider crane			Dual-fuel, dual-mode rocket engine		
[NASA-CASE-LAR-13134-2]	c 07	N87-16828	[NASA-CASE-LAR-13411-1-SB]	c 18	N88-23828	[NASA-CASE-LAR-13773-1]	c 20	N90-19298
Single frequency multitransmitter telemetry			Arc lamp power supply using a voltage multiplier			Method-for maintaining precise suction strip porosities		
[NASA-CASE-LAR-13006-1]	c 17	N87-16863	[NASA-CASE-LAR-13202-1]	c 33	N88-23942	[NASA-CASE-LAR-13638-1]	c 31	N90-19427
Ethynyl terminated ester oligomers and polymers therefrom			Thermal remote anemometer system			Method and apparatus for detecting laminar flow separation and reattachment		
[NASA-CASE-LAR-13118-2]	c 27	N87-16907	[NASA-CASE-LAR-13508-1]	c 35	N88-23962	[NASA-CASE-LAR-13952-1-SB]	c 34	N90-19534
Airplane automatic control force trimming device for asymmetric engine failures			Mining volume measurement system			Compression pylon		
[NASA-CASE-LAR-13280-1]	c 08	N87-20999	[NASA-CASE-LAR-13519-1]	c 35	N88-23963	[NASA-CASE-LAR-13777-1]	c 05	N90-20078
Measurement apparatus and procedure for the determination of surface emissivities			Bearing-bypass material system test			Passive venting technique for shallow cavities		
[NASA-CASE-LAR-13455-1]	c 32	N87-21206	[NASA-CASE-LAR-13458-1]	c 35	N88-23967	[NASA-CASE-LAR-14031-1]	c 05	N90-20079
Comparator with noise suppression			Composite piston			Airplane takeoff and landing performance monitoring system		
[NASA-CASE-LAR-13151-1]	c 33	N87-21235	[NASA-CASE-LAR-13435-1]	c 37	N88-23981	[NASA-CASE-LAR-13734-1-CU]	c 09	N90-20096
Acoustic guide for noise-transmission testing of aircraft			Variable response load limiting device			Isotope exchange in oxide-containing catalyst		
[NASA-CASE-LAR-13111-1-CU]	c 71	N87-21652	[NASA-CASE-LAR-12801-1]	c 37	N88-23982	[NASA-CASE-LAR-13542-2-SB]	c 25	N90-20154
Acoustic radiation stress measurement			Radio Frequency (RF) strain monitor			Process for making a noble metal on tin oxide catalyst		
[NASA-CASE-LAR-13440-1]	c 71	N87-21653	[NASA-CASE-LAR-13705-1]	c 39	N88-25011	[NASA-CASE-LAR-13741-1-SB]	c 25	N90-20180
Aircraft control position indicator			Phase length optical phase-locked-loop sensor			Electronic precipitator control		
[NASA-CASE-LAR-12984-1]	c 06	N87-22678	[NASA-CASE-LAR-13387-1]	c 74	N88-25302	[NASA-CASE-LAR-13273-2]	c 33	N90-20320
Polynamines from aromatic diacetylenic diketones and diamines			Method and device for determining heats of combustion of gaseous hydrocarbons			Reusable high-temperature heat pipes and heat pipe panels		
[NASA-CASE-LAR-13444-1-CU]	c 27	N87-22847	[NASA-CASE-LAR-13528-1]	c 25	N88-29002	[NASA-CASE-LAR-13761-1]	c 34	N90-20323
Process for crosslinking and extending conjugated diene-containing polymers			Ice detector			Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer		
[NASA-CASE-LAR-13452-1]	c 27	N87-22848	[NASA-CASE-LAR-13776-1]	c 35	N88-29149	[NASA-CASE-LAR-13696-1]	c 37	N90-20409
Daze fasteners			Liquid thickness gauge			Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane		
[NASA-CASE-LAR-13009-2]	c 37	N87-22976	[NASA-CASE-LAR-13826-1]	c 35	N88-29150	[NASA-CASE-LAR-13965-1-CU]	c 23	N90-21118
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace			Method of attaching strain gauges to various materials			Magneto acoustic emission apparatus for testing materials for embrittlement		
[NASA-CASE-LAR-13597-1-CU]	c 25	N87-23713	[NASA-CASE-LAR-13797-1]	c 35	N88-30108	[NASA-CASE-LAR-13817-1]	c 26	N90-21170
Rapid quantification of an internal property			Ultrasonic method and apparatus for determining crack opening load			Process for crosslinking methylene-containing aromatic polymers with ionizing radiation		
[NASA-CASE-LAR-13689-1-NP]	c 35	N87-23941	[NASA-CASE-LAR-13889-1]	c 39	N88-30160	[NASA-CASE-LAR-13448-1]	c 27	N90-21198
Adjustable mount for electro-optic transducers in an evacuated cryogenic system			Control surface actuator			Pressure rig for repetitive casting		
[NASA-CASE-LAR-13100-1]	c 37	N87-23982	[NASA-CASE-LAR-12852-1]	c 05	N89-11738	[NASA-CASE-LAR-14050-1]	c 31	N90-21216
Fully redundant mechanical release actuator			Polyphenylquinoxalines via aromatic nucleophilic displacement			Rapidly quantifying the relative distention of a human bladder		
[NASA-CASE-LAR-13198-1]	c 37	N87-23983	[NASA-CASE-LAR-13988-1]	c 23	N89-11814	[NASA-CASE-LAR-13901-1-NP]	c 52	N90-21519
Polyimides containing carbonyl and ether connecting groups			Method for laminar boundary layer transition visualization in flight			Impact tolerant material		
[NASA-CASE-LAR-13633-1]	c 27	N87-24575	[NASA-CASE-LAR-13554-1]	c 02	N89-12551	[NASA-CASE-LAR-12887-3]	c 24	N90-21822
Airfoil flutter model suspension system			Polynamines from aromatic diacetylenic diketones and diamines			Device for quickly sensing the amount of O ₂ in a combustion product gas		
[NASA-CASE-LAR-13522-1-SB]	c 09	N87-25334	[NASA-CASE-LAR-13444-2-CU]	c 23	N89-12667	[NASA-CASE-LAR-13816-1]	c 35	N90-22025
Oxygen diffusion barrier coating			Cryogenic insulation system			Lightweight piston architecture		
[NASA-CASE-LAR-13474-1-SB]	c 26	N87-25455	[NASA-CASE-LAR-13506-1]	c 27	N89-12741	[NASA-CASE-LAR-13926-1]	c 37	N90-22042
Process for developing crystallinity in linear aromatic polyimides			Truss-core corrugation for compressive loads			Earth-to-orbit vehicle providing a reusable orbital stage		
[NASA-CASE-LAR-13732-1]	c 27	N87-25474	[NASA-CASE-LAR-13438-1]	c 31	N89-12786	[NASA-CASE-LAR-13486-1]	c 16	N90-22584
Deployable geodesic truss structure			Porous plug for reducing orifice induced pressure error in airfoils			Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment		
[NASA-CASE-LAR-13113-1]	c 31	N87-25492	[NASA-CASE-LAR-13569-1]	c 35	N89-12841	[NASA-CASE-LAR-13740-1]	c 35	N90-22770
Miniature remote dead weight calibrator			Pultrusion die assembly			Actuated forebody strakes		
[NASA-CASE-LAR-13564-1]	c 35	N87-25558	[NASA-CASE-LAR-13719-1]	c 37	N89-12867	[NASA-CASE-LAR-13983-1]	c 05	N90-23390
Vapor fragrancier			High lift, low pitching moment airfoils			Catalyst for carbon monoxide oxidation		
[NASA-CASE-LAR-13680-1]	c 35	N87-25561	[NASA-CASE-LAR-13215-1]	c 02	N89-14224	[NASA-CASE-LAR-14155-1-SB]	c 25	N90-23517
Preloaded space structural coupling joints			Polyphenylquinoxalines containing alkylendioxy groups			Noninvasive method and apparatus for monitoring the cure of polymeric materials		
[NASA-CASE-LAR-13489-1]	c 18	N87-27713	[NASA-CASE-LAR-13601-1-CU]	c 27	N89-14337	[NASA-CASE-LAR-13465-1]	c 27	N90-23544
Lightweight piston			Frequency domain laser velocimeter signal processor			Acetylene terminated aspartimides and resins therefrom		
[NASA-CASE-LAR-13150-1]	c 24	N87-27742	[NASA-CASE-LAR-13552-1-CU]	c 33	N89-14385	[NASA-CASE-LAR-14188-1]	c 27	N90-23545
Semi-2-interpenetrating networks of high temperature systems			Ultrasonic depth gauge for liquids under high pressure			Process for lowering the dielectric constant of polyimides using diamic acid additives		
[NASA-CASE-LAR-13450-1]	c 27	N87-28657	[NASA-CASE-LAR-13300-1-CU]	c 35	N89-14407	[NASA-CASE-LAR-13902-1]	c 27	N90-23546
Flat-panel, full-color, electroluminescent display			Pressure measuring probe			Circumferential pressure probe		
[NASA-CASE-LAR-13407-1]	c 33	N87-28831	[NASA-CASE-LAR-13853-1]	c 35	N89-14423	[NASA-CASE-LAR-13775-1]	c 35	N90-23706
Device for quick changeover between wind tunnel force and pressure testing			Method and system for monitoring and displaying engine performance parameters			Miniaturization of flight deflection measurement system		
[NASA-CASE-LAR-13512-1]	c 35	N87-28884	[NASA-CASE-LAR-14049-1]	c 07	N89-23466	[NASA-CASE-LAR-13628-1]	c 35	N90-23707
Mobile remote manipulator vehicle system			Seminterpenetrating polymer network for tougher and more microcracking resistant high temperature polymers					
[NASA-CASE-LAR-13393-1]	c 54	N87-29118	[NASA-CASE-LAR-13925-1]	c 27	N89-25334			
Procedure to prepare transparent silica gels			Antenna surface contour control system					
[NASA-CASE-LAR-13476-1-CU]	c 76	N87-29360	[NASA-CASE-LAR-13798-1]	c 32	N89-25363			
Braille reading system			Aluminum alloy					
[NASA-CASE-LAR-13306-1]	c 82	N87-29372	[NASA-CASE-LAR-13924-1-CU]	c 26	N89-28621			
			Almond test body					
			[NASA-CASE-LAR-13747-1-CU]	c 32	N89-28672			

Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713

Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742

Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756

Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150

Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168

Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196

Method of inseting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197

A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881

Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953

Polyimidozoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954

A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955

Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956

Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071

Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072

Braided composite fasteners and method for producing same
[NASA-CASE-LAR-14062-1] c 37 N90-27114

Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116

Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481

Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527

Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558

Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559

Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560

Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N91-13561

Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562

Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684

Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1] c 35 N91-13686

Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694

Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345

Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356

Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418

N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419

Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430

Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562

Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590

Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614

Spiral lead platen robotic end effector
[NASA-CASE-LAR-13855-1] c 37 N91-14615

Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334

Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N91-15403

Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N91-15544

Fiber optic microphone
[NASA-CASE-LAR-14402-1-CU] c 74 N91-15874

Lamina transducer coupler and method of making
[NASA-CASE-LAR-14361-1] c 71 N91-16707

Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N91-16999

Torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N91-21176

Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270

Heat tube device
[NASA-CASE-KSC-11395-1-CU] c 34 N91-21473

Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N91-21539

Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541

Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N91-21824

Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911

Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N91-23237

Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410

Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N91-23889

Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
[NASA-CASE-LAR-13562-2] c 24 N91-25199

Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200

Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392

Liquid cooled supersonic total temperature probe
[NASA-CASE-LAR-14435-1-CU] c 09 N91-26159

Selectable towline spin chute system
[NASA-CASE-LAR-13422-1] c 02 N91-27139

Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N91-27156

Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199

Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N91-27220

Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562

Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N91-27913

Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914

Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N91-28135

Improved method and apparatus for Mach number change in wind tunnel
[NASA-CASE-LAR-13548-1] c 09 N91-28175

Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184

Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N91-28321

Process for bonding elastomers to metal
[NASA-CASE-LAR-13645-1] c 27 N91-28424

Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N91-28425

Improving the performance of blasting caps
[NASA-CASE-LAR-13832-1] c 28 N91-28444

Flush mounting of thin film sensors
[NASA-CASE-LAR-14446-1] c 31 N91-28454

Method and apparatus for cleaning rubber deposits from airport runways and roadways
[NASA-CASE-LAR-14483-1] c 31 N91-28455

Method of preforming and assembling superconducting circuit elements
[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490

Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N91-28546

Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N91-28580

Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120

Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140

Ethynyl terminated imidothioethers and resins therefrom
[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307

Apparatus and method for explosive bonding to edge of flyer plate
[NASA-CASE-LAR-14096-1] c 31 N91-31476

Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596

Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950

Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

Ignitability test method and apparatus
[NASA-CASE-LAR-14454-1] c 25 N91-32196

Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N91-32511

Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008

Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035

Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066

Process for application of powder particles to filamentary materials
[NASA-CASE-LAR-14231-1] c 24 N92-10070

A process for preparing 1,3-diamino-5-pentafluorosulfanylbenzene and polymers therefrom
[NASA-CASE-LAR-14773-1-CU] c 27 N92-10105

Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182

Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N92-10185

Multi-degree of freedom, active vibration control method, and system
[NASA-CASE-LAR-14508-1-CU] c 39 N92-10202

Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198

Low toxicity high temperature PMR polyimides
[NASA-CASE-LAR-14639-1] c 27 N92-11199

Diphenylmethane-containing dianhydride and polyimides prepared therefrom
[NASA-CASE-LAR-14487-1] c 27 N92-11200

A process for preparing an assembly of an article and a polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14538-1] c 27 N92-11201

Integral fill yarn insertion and beatup method
[NASA-CASE-LAR-14046-1] c 31 N92-11219

Woven angle ply fabric and apparatus and method for producing such fabrics
[NASA-CASE-LAR-14048-1] c 31 N92-11220

Schlieren system for visualizing the flow within a pipe of circular cross-section
[NASA-CASE-LAR-13944-1] c 35 N92-11336

Blind fastening apparatus
[NASA-CASE-LAR-14542-1] c 37 N92-11354

Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374

Method of recertifying a loaded bearing member using a phase point
[NASA-CASE-LAR-14741-1] c 39 N92-11384

Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621

A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121

Vacuum-isolation vessel and method for measurement of thermal noise in microphones
[NASA-CASE-LAR-14567-1-CU] c 33 N92-12174

Method of recertifying a loaded bearing member
[NASA-CASE-LAR-14168-1] c 39 N92-12302

Processing for maximizing the level of crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-14481-1] c 25 N92-16043

Permanent wire splicing by an explosive joining process
[NASA-CASE-LAR-13825-1] c 31 N92-16162

Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N92-16290

Polyimides containing amide and perfluoroisopropyl connecting groups
[NASA-CASE-LAR-14608-1] c 27 N92-17676

Substantially oxygen-free contact tube
[NASA-CASE-LAR-14169-1] c 37 N92-17677

A method and apparatus for indicating disbands in joint regions
 [NASA-CASE-LAR-14626-1] c 38 N92-17859
 Active control of pressure loads using passive porosity
 [NASA-CASE-LAR-14594-1] c 34 N92-17888
 Passive control of pressure loads using porosity
 [NASA-CASE-LAR-14547-1] c 34 N92-17909
 Water cooled static pressure probe
 [NASA-CASE-LAR-14340-1-CU] c 35 N92-21586
 Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
 [NASA-CASE-LAR-13870-1-CU] c 05 N92-21587
 Multi-colored layers for visualizing aerodynamic flow effects
 [NASA-CASE-LAR-13742-1] c 02 N92-21588
 Thermal remote anemometer system
 [NASA-CASE-LAR-13508-1] c 35 N92-21710
 Semi-interpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
 [NASA-CASE-LAR-13925-1] c 27 N92-21711
 Tough, high performance, addition-type thermoplastic polymers
 [NASA-CASE-LAR-14346-1] c 27 N92-22044
National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.
 Foil seal
 [NASA-CASE-XLE-05130] c 15 N69-21362
 Fluid jet amplifier
 [NASA-CASE-XLE-03512] c 12 N69-21466
 Electrode and insulator with shielded dielectric junction
 [NASA-CASE-XLE-03778] c 09 N69-21542
 Thin window, drifted silicon, charged particle detector
 [NASA-CASE-XLE-10529] c 14 N69-23191
 Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
 [NASA-CASE-XLE-00690] c 25 N69-39884
 Ion thruster cathode
 [NASA-CASE-XLE-07087] c 06 N69-39889
 Superconducting alternator
 [NASA-CASE-XLE-02824] c 03 N69-39890
 Triode thermionic energy converter
 [NASA-CASE-XLE-01015] c 03 N69-39898
 Slug flow magnetohydrodynamic generator
 [NASA-CASE-XLE-02083] c 03 N69-39983
 Reduced gravity liquid configuration simulator
 [NASA-CASE-XLE-02624] c 12 N69-39988
 Transpiration cooled turbine blade manufactured from wires Patent
 [NASA-CASE-XLE-00020] c 15 N70-33226
 Rocket propellant injector Patent
 [NASA-CASE-XLE-00103] c 28 N70-33241
 Modification and improvements to cooled blades Patent
 [NASA-CASE-XLE-00092] c 15 N70-33264
 Colloid propulsion method and apparatus Patent
 [NASA-CASE-XLE-00817] c 28 N70-33265
 High-vacuum condenser tank for ion rocket tests Patent
 [NASA-CASE-XLE-00168] c 11 N70-33278
 High temperature nickel-base alloy Patent
 [NASA-CASE-XLE-00151] c 17 N70-33283
 Annular rocket motor and nozzle configuration Patent
 [NASA-CASE-XLE-00078] c 28 N70-33284
 Reinforced metallic composites Patent
 [NASA-CASE-XLE-02428] c 17 N70-33288
 Process for applying a protective coating for salt bath brazing Patent
 [NASA-CASE-XLE-00046] c 15 N70-33311
 Wire grid forming apparatus Patent
 [NASA-CASE-XLE-00023] c 15 N70-33330
 Electro-thermal rocket Patent
 [NASA-CASE-XLE-00267] c 28 N70-33356
 External liquid-spray cooling of turbine blades Patent
 [NASA-CASE-XLE-00037] c 28 N70-33372
 Apparatus for igniting solid propellants Patent
 [NASA-CASE-XLE-00207] c 28 N70-33375
 Flexible seal for valves Patent
 [NASA-CASE-XLE-00101] c 15 N70-33376
 Apparatus for making a metal slurry product Patent
 [NASA-CASE-XLE-00010] c 15 N70-33382
 Energy conversion apparatus Patent
 [NASA-CASE-XLE-00212] c 03 N70-34134
 Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
 [NASA-CASE-XLE-00266] c 14 N70-34156
 Electrothermal rockets having improved heat exchangers Patent
 [NASA-CASE-XLE-01783] c 28 N70-34175
 Venting vapor apparatus Patent
 [NASA-CASE-XLE-00288] c 15 N70-34247
 Thrust vector control apparatus Patent
 [NASA-CASE-XLE-00208] c 28 N70-34294
 High temperature heat source Patent
 [NASA-CASE-XLE-00490] c 33 N70-34545

Inlet deflector for jet engines Patent
 [NASA-CASE-XLE-00388] c 28 N70-34788
 Radiant heater having formed filaments Patent
 [NASA-CASE-XLE-00387] c 33 N70-34812
 Optical torquemeter Patent
 [NASA-CASE-XLE-00503] c 14 N70-34818
 Electric propulsion engine test chamber Patent
 [NASA-CASE-XLE-00252] c 11 N70-34844
 Conical valve plug Patent
 [NASA-CASE-XLE-00715] c 15 N70-34859
 Channel-type shell construction for rocket engines and the like Patent
 [NASA-CASE-XLE-00144] c 28 N70-34860
 Non-reusable kinetic energy absorber Patent
 [NASA-CASE-XLE-00810] c 15 N70-34861
 High temperature testing apparatus Patent
 [NASA-CASE-XLE-00335] c 14 N70-35368
 Ion thruster cathode Patent Application
 [NASA-CASE-XLE-10814-1] c 28 N70-35422
 Formed metal ribbon wrap Patent
 [NASA-CASE-XLE-00164] c 15 N70-36411
 Multistage multiple-reentry turbine Patent
 [NASA-CASE-XLE-00170] c 15 N70-36412
 Fluid coupling Patent
 [NASA-CASE-XLE-00397] c 15 N70-36492
 Injector-valve device Patent
 [NASA-CASE-XLE-00303] c 15 N70-36535
 Nickel-base alloy Patent
 [NASA-CASE-XLE-00283] c 17 N70-36616
 Apparatus having coaxial capacitor structure for measuring fluid density Patent
 [NASA-CASE-XLE-00143] c 14 N70-36618
 Rocket thrust chamber Patent
 [NASA-CASE-XLE-00145] c 28 N70-36806
 Ion rocket Patent
 [NASA-CASE-XLE-00376] c 28 N70-37245
 Annular supersonic decelerator or drogue Patent
 [NASA-CASE-XLE-00222] c 02 N70-37939
 Rocket engine Patent
 [NASA-CASE-XLE-00342] c 28 N70-37980
 Variable sweep aircraft wing Patent
 [NASA-CASE-XLE-00350] c 02 N70-38011
 Apparatus for transferring cryogenic liquids Patent
 [NASA-CASE-XLE-00345] c 15 N70-38020
 Method of producing porous tungsten ionizers for ion rocket engines Patent
 [NASA-CASE-XLE-00455] c 28 N70-38197
 Method of making fiber reinforced metallic composites Patent
 [NASA-CASE-XLE-00231] c 17 N70-38198
 Rocket engine injector Patent
 [NASA-CASE-XLE-00111] c 28 N70-38199
 Reinforced metallic composites Patent
 [NASA-CASE-XLE-00228] c 17 N70-38490
 Rocket motor system Patent
 [NASA-CASE-XLE-00323] c 28 N70-38505
 Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
 [NASA-CASE-XLE-00243] c 14 N70-38602
 Penshape exhaust nozzle for supersonic engine Patent
 [NASA-CASE-XLE-00057] c 28 N70-38711
 Multistage multiple-reentry turbine Patent
 [NASA-CASE-XLE-00085] c 28 N70-39895
 Gas lubricant compositions Patent
 [NASA-CASE-XLE-00353] c 18 N70-39897
 Telescoping-spike supersonic inlet for aircraft engines Patent
 [NASA-CASE-XLE-00005] c 28 N70-39899
 High temperature spark plug Patent
 [NASA-CASE-XLE-00660] c 28 N70-39925
 Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
 [NASA-CASE-XLE-01512] c 12 N70-40124
 Apparatus for absorbing and measuring power Patent
 [NASA-CASE-XLE-00720] c 14 N70-40201
 Device for directionally controlling electromagnetic radiation Patent
 [NASA-CASE-XLE-01716] c 09 N70-40234
 Method for continuous variation of propellant flow and thrust in propulsive devices Patent
 [NASA-CASE-XLE-00177] c 28 N70-40367
 Apparatus for increasing ion engine beam density Patent
 [NASA-CASE-XLE-00519] c 28 N70-41576
 Foldable conduit Patent
 [NASA-CASE-XLE-00620] c 32 N70-41579
 Liquid storage tank venting device for zero gravity environment Patent
 [NASA-CASE-XLE-01449] c 15 N70-41646
 Method of making a regeneratively cooled combustion chamber Patent
 [NASA-CASE-XLE-00150] c 28 N70-41818

Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
 [NASA-CASE-XLE-00011] c 14 N70-41946
 Small rocket engine Patent
 [NASA-CASE-XLE-00685] c 28 N70-41992
 Apparatus for positioning and loading a test specimen Patent
 [NASA-CASE-XLE-01300] c 15 N70-41993
 Liquid flow sight assembly Patent
 [NASA-CASE-XLE-02998] c 14 N70-42074
 Inductive liquid level detection system Patent
 [NASA-CASE-XLE-01609] c 14 N71-10500
 Method of forming thin window drifted silicon charged particle detector Patent
 [NASA-CASE-XLE-00808] c 24 N71-10560
 Electrostatic thruster with improved insulators Patent
 [NASA-CASE-XLE-01902] c 28 N71-10574
 Thin-walled pressure vessel Patent
 [NASA-CASE-XLE-04677] c 15 N71-10577
 Method of making a silicon semiconductor device Patent
 [NASA-CASE-XLE-02792] c 26 N71-10607
 Metallic film diffusion for boundary lubrication Patent
 [NASA-CASE-XLE-01765] c 18 N71-10772
 Molecular beam velocity selector Patent
 [NASA-CASE-XLE-01533] c 11 N71-10777
 Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
 [NASA-CASE-XLE-01246] c 14 N71-10797
 Capacitor and method of making same Patent
 [NASA-CASE-XLE-10364-1] c 09 N71-13522
 Capillary radiator Patent
 [NASA-CASE-XLE-03307] c 33 N71-14035
 Electrostatic ion engine having a permanent magnetic circuit Patent
 [NASA-CASE-XLE-01124] c 28 N71-14043
 Split welding chamber Patent
 [NASA-CASE-XLE-11531] c 15 N71-14932
 Method and apparatus for making curved reflectors Patent
 [NASA-CASE-XLE-08917] c 15 N71-15597
 Method of making a diffusion bonded refractory coating Patent
 [NASA-CASE-XLE-01604-2] c 15 N71-15610
 Black-body furnace Patent
 [NASA-CASE-XLE-01399] c 33 N71-15625
 Method of igniting solid propellants Patent
 [NASA-CASE-XLE-01988] c 27 N71-15634
 Fluid dispensing apparatus and method Patent
 [NASA-CASE-XLE-01182] c 27 N71-15635
 Automatically deploying nozzle exit cone extension Patent
 [NASA-CASE-XLE-01640] c 31 N71-15637
 High temperature cobalt-base alloy Patent
 [NASA-CASE-XLE-00726] c 17 N71-15644
 Method of making a rocket motor casing Patent
 [NASA-CASE-XLE-00409] c 28 N71-15658
 Rocket motor casing Patent
 [NASA-CASE-XLE-05689] c 28 N71-15659
 Electrostatic ion rocket engine Patent
 [NASA-CASE-XLE-02066] c 28 N71-15661
 High temperature cobalt-base alloy Patent
 [NASA-CASE-XLE-02991] c 17 N71-16025
 Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
 [NASA-CASE-XLE-02082] c 17 N71-16026
 Method of improving the reliability of a rolling element system Patent
 [NASA-CASE-XLE-02999] c 15 N71-16052
 Process of casting heavy slips Patent
 [NASA-CASE-XLE-00106] c 15 N71-16076
 Boiler for generating high quality vapor Patent
 [NASA-CASE-XLE-00785] c 33 N71-16104
 Method of making self lubricating fluoride-metal composite materials Patent
 [NASA-CASE-XLE-08511-2] c 18 N71-16105
 Thrust and direction control apparatus Patent
 [NASA-CASE-XLE-03583] c 31 N71-17629
 Linear magnetic brake with two windings Patent
 [NASA-CASE-XLE-05079] c 15 N71-17652
 Method of lubricating rolling element bearings Patent
 [NASA-CASE-XLE-09527] c 15 N71-17688
 Hot wire liquid level detector for cryogenic fluids Patent
 [NASA-CASE-XLE-00454] c 23 N71-17802
 Pulsed differential comparator circuit Patent
 [NASA-CASE-XLE-03804] c 10 N71-19471
 Foil seal Patent
 [NASA-CASE-XLE-05130-2] c 15 N71-19570
 Generator for a space power system Patent
 [NASA-CASE-XLE-04250] c 09 N71-20446
 Method of making electrical contact on silicon solar cell and resultant product Patent
 [NASA-CASE-XLE-04787] c 03 N71-20492
 Small plasma probe Patent
 [NASA-CASE-XLE-02578] c 25 N71-20747

Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904

Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090

Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507

High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583

Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694

Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819

Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797

Cryogenic insulation system Patent
[NASA-CASE-XLE-02422] c 23 N71-22881

Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894

Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964

Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987

Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080

Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093

Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190

High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248

Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267

Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292

Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354

Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443

Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449

Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527

Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599

Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654

Insulation system Patent
[NASA-CASE-XLE-02647] c 18 N71-23658

Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710

Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810

Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817

Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968

Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046

Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142

Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145

Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681

Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736

Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798

Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836

Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864

Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911

Pneumatic oscillator Patent
[NASA-CASE-XLE-10345-1] c 10 N71-25899

Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-XLE-11358] c 03 N71-26084

Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153

Ion beam deflector Patent
[NASA-CASE-XLE-10689-1] c 28 N71-26173

Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189

Ion thruster accelerator system Patent
[NASA-CASE-XLE-10106-1] c 28 N71-26642

Propellant feed isolator Patent
[NASA-CASE-XLE-10210-1] c 28 N71-26781

Heat activated cell Patent
[NASA-CASE-XLE-11359] c 03 N71-28579

Process for glass coating an ion accelerator grid Patent
[NASA-CASE-XLE-10278-1] c 15 N71-28582

Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741

Gas core nuclear reactor Patent
[NASA-CASE-XLE-10250-1] c 22 N71-28759

Gas turbine combustor Patent
[NASA-CASE-XLE-10286-1] c 28 N71-28915

Cyclic switch Patent
[NASA-CASE-XLE-10155-1] c 09 N71-29035

Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151

Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152

Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154

Corrosion resistant beryllium Patent
[NASA-CASE-XLE-10327] c 17 N71-33408

Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136

Sensing probe
[NASA-CASE-XLE-10281-1] c 14 N72-17327

Method of making emf cell
[NASA-CASE-XLE-11359-2] c 03 N72-20034

Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597

Switching regulator
[NASA-CASE-XLE-11005-1] c 09 N72-21243

Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196

Pulse coupling circuit
[NASA-CASE-XLE-10433-1] c 09 N72-22197

Solid state remote circuit selector switch
[NASA-CASE-XLE-10387] c 09 N72-22201

Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203

High speed rolling element bearing
[NASA-CASE-XLE-10856-1] c 15 N72-22490

Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530

Nickel base alloy
[NASA-CASE-XLE-10874-1] c 17 N72-22535

Ion thruster magnetic field control
[NASA-CASE-XLE-10835-1] c 28 N72-22771

Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150

Analog Signal to Discrete Time Interval Converter (ASDTIC)
[NASA-CASE-ERC-10048] c 09 N72-25251

Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252

Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410

Electrical insulating layer process
[NASA-CASE-XLE-10489-1] c 15 N72-25447

Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-XLE-10450-1] c 15 N72-25448

Selective nickel deposition
[NASA-CASE-XLE-10965-1] c 15 N72-25452

Method of making fiber composites
[NASA-CASE-XLE-10424-2-2] c 18 N72-25539

Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680

Ablative system
[NASA-CASE-XLE-10359] c 33 N72-25911

Inductance device with vacuum insulation
[NASA-CASE-XLE-10330-1] c 09 N72-27226

Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410

Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535

Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536

Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488

Production of high purity I-123
[NASA-CASE-XLE-10518-1] c 24 N72-33681

Electrostatic collector for charged particles
[NASA-CASE-XLE-11192-1] c 09 N73-13208

Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417

Method of forming superalloys
[NASA-CASE-XLE-10805-1] c 15 N73-13465

Rocket thrust throttling system
[NASA-CASE-XLE-10374-1] c 28 N73-13773

Gas turbine engine fuel control
[NASA-CASE-XLE-11187-1] c 28 N73-19793

Thermocouple tape
[NASA-CASE-XLE-11072-1] c 14 N73-24472

Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-XLE-10920-1] c 17 N73-24569

Magneto-plasma-dynamic arc thruster
[NASA-CASE-XLE-11180-1] c 25 N73-25760

Ablative system
[NASA-CASE-XLE-10359-2] c 33 N73-25952

Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228

Twisted multifilament superconductor
[NASA-CASE-XLE-11726-1] c 26 N73-26752

Ophthalmic method and apparatus
[NASA-CASE-XLE-11669-1] c 05 N73-27062

Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27699

Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-XLE-11325-1] c 06 N73-27980

Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-XLE-11159-1] c 14 N73-28488

Welding blades to rotors
[NASA-CASE-XLE-10533-1] c 15 N73-28515

Low mass rolling element for bearings
[NASA-CASE-XLE-11087-1] c 15 N73-30458

Swirl can primary combustor
[NASA-CASE-XLE-11326-1] c 23 N73-30665

Enhanced diffusion welding
[NASA-CASE-XLE-11388-1] c 15 N73-32358

High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series
[NASA-CASE-XLE-11152-1] c 15 N73-32359

Nickel aluminide coated low alloy stainless steel
[NASA-CASE-XLE-11267-1] c 17 N73-32414

Cobalt-base alloy
[NASA-CASE-XLE-10436-1] c 17 N73-32415

Nuclear fuel elements
[NASA-CASE-XLE-00209] c 22 N73-32528

Method of fabricating a twisted composite superconductor
[NASA-CASE-XLE-11015] c 26 N73-32571

Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-XLE-11101-1] c 31 N73-32750

Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-XLE-11026-1] c 15 N73-33383

Electron beam controller
[NASA-CASE-XLE-11617-1] c 33 N74-10195

Spiral groove seal
[NASA-CASE-XLE-10326-3] c 37 N74-10474

Method of heat treating a formed powder product material
[NASA-CASE-XLE-10805-3] c 26 N74-10521

Apparatus for welding blades to rotors
[NASA-CASE-XLE-10533-2] c 37 N74-11300

High powered arc electrodes
[NASA-CASE-XLE-11162-1] c 33 N74-12913

Method of forming articles of manufacture from superalloy powders
[NASA-CASE-XLE-10805-2] c 37 N74-13179

Deposition of alloy films
[NASA-CASE-XLE-11262-1] c 27 N74-13270

Supersonic-combustion rocket
[NASA-CASE-XLE-11058-1] c 20 N74-13502

Method of making silicon solar cell array
[NASA-CASE-XLE-11069-1] c 44 N74-14784

Spiral groove seal
[NASA-CASE-XLE-10326-4] c 37 N74-15125

Method of making rolling element bearings
[NASA-CASE-XLE-11087-2] c 37 N74-15128

Gas turbine exhaust nozzle
[NASA-CASE-XLE-11569-1] c 07 N74-15453

Demodulator for carrier transducers
[NASA-CASE-XLE-10107-1] c 33 N74-17930

Diffusion welding in air
[NASA-CASE-XLE-11387-1] c 37 N74-18128

Airflow control system for supersonic inlets
[NASA-CASE-XLE-11188-1] c 02 N74-20646

Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859

C-37

Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179

Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336

Hypervelocity gun
[NASA-CASE-XLE-03186-1] c 09 N79-21084

Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225

Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910

Method and device for the detection of phenol and related compounds
[NASA-CASE-LEW-12513-1] c 25 N79-22235

Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271

Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475

Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481

Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474

Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307

Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188

Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472

Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684

Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039

Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400

Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690

Atomic hydrogen storage
[NASA-CASE-LEW-12081-2] c 28 N80-20402

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487

Modification of the electrical and optical properties of polymers
[NASA-CASE-LEW-13027-1] c 27 N80-24437

Heat exchanger and method of making
[NASA-CASE-LEW-12441-2] c 34 N80-24573

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658

Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711

Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790

High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484

Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516

Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186

Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482

Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542

Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

Improved refractory coatings
[NASA-CASE-LEW-23169-2] c 26 N81-16209

Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-1] c 24 N81-17170

Curing agent for polyepoxides and epoxy resins and composites cured therewith
[NASA-CASE-LEW-13226-1] c 27 N81-17260

Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115

Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296

Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455

Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

In-situ cross linking of polyvinyl alcohol
[NASA-CASE-LEW-13135-2] c 27 N81-24257

Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442

Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519

Toroidal cell and battery
[NASA-CASE-LEW-12918-1] c 44 N81-24521

Corrosion resistant thermal barrier coating
[NASA-CASE-LEW-13088-1] c 26 N81-25188

Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179

Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447

Polyvinyl alcohol battery separator containing inert filler
[NASA-CASE-LEW-13556-1] c 44 N81-27615

Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129

Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

High thermal power density heat transfer
[NASA-CASE-LEW-12950-1] c 34 N82-11399

Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540

Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268

Multistage depressed collector for dual mode operation
[NASA-CASE-LEW-13282-1] c 33 N82-24415

Thrust reverser for a long duct fan engine
[NASA-CASE-LEW-13199-1] c 07 N82-26293

Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568

Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674

Texturing polymer surfaces by transfer casting
[NASA-CASE-LEW-13120-1] c 27 N82-28440

Method of protecting a surface with a silicon-slurry/aluminide coating
[NASA-CASE-LEW-13343-1] c 27 N82-28441

Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415

Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453

Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709

Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371

Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505

High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764

Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366

Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521

Ion sputter textured graphite
[NASA-CASE-LEW-12919-1] c 24 N83-10117

Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170

Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494

Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579

Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692

Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596

Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996

Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785

Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144

Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344

Method of forming oxide coatings
[NASA-CASE-LEW-13132-1] c 27 N83-29388

Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392

Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

Silicon-slurry/aluminide coating
[NASA-CASE-LEW-13343] c 26 N83-31795

Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855

Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176

High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177

Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796

Covering solid, film coated surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177

Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029

Additive for zinc electrodes
[NASA-CASE-LEW-13286-1] c 33 N84-14422

Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276

Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452

Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734

Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944

Method of fabricating an abrasible gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577

Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829

Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855

Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885

Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974

Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410

Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555

Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663

Diesel engine catalytic combustor system
[NASA-CASE-LEW-12995-1] c 37 N84-33808

Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153

Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530

Ring-cusp ion thruster with shell anode [NASA-CASE-LEW-13881-1]	c 20	N85-21256	Precision tunable resonant microwave cavity [NASA-CASE-LEW-13935-1]	c 33	N87-21234	Multi-heat addition turbine engine [NASA-CASE-LEW-15094-1]	c 07	N91-23180
Thermal barrier coating system [NASA-CASE-LEW-13324-2]	c 24	N85-21266	Oxidation protection coatings for polymers [NASA-CASE-LEW-14072-3]	c 27	N87-23736	Method of producing a plug type heat flux gauge [NASA-CASE-LEW-14967-2]	c 35	N91-23460
Diamondlike flakes [NASA-CASE-LEW-13837-2]	c 24	N85-21267	Carbide-fluoride-silver self-lubricating composite [NASA-CASE-LEW-14196-2]	c 37	N87-25585	Solar thermal energy receiver [NASA-CASE-LEW-14949-1]	c 44	N91-23617
Chemical approach for controlling nadimide cure temperature and rate with maleimide [NASA-CASE-LEW-13770-3]	c 27	N85-21350	Heat treatment for superalloy [NASA-CASE-LEW-14262-1]	c 26	N87-28647	Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis [NASA-CASE-LEW-14345-4]	c 23	N91-25185
Chemical approach for controlling nadimide cure temperature and rate with maleimide [NASA-CASE-LEW-13770-4]	c 27	N85-21351	Method of preparing fiber reinforced ceramic material [NASA-CASE-LEW-14392-1]	c 27	N87-28656	Heat transfer device [NASA-CASE-LEW-14162-2]	c 24	N91-25201
Chemical approach for controlling nadimide cure temperature and rate [NASA-CASE-LEW-13770-5]	c 27	N85-21352	Apparatus for mounting a field emission cathode [NASA-CASE-LEW-14108-1]	c 33	N87-28832	Method of applying a thermal barrier coating system to a substrate [NASA-CASE-LEW-15020-2]	c 24	N91-25202
Inelastic tunnel diodes [NASA-CASE-LEW-13833-1]	c 33	N85-21492	Ion-beam nitriding of steels [NASA-CASE-LEW-14104-2]	c 26	N88-14179	Arc-textured high emittance radiator surfaces [NASA-CASE-LEW-14679-1]	c 27	N91-25296
Solar energy converter using surface plasma waves [NASA-CASE-LEW-13827-1]	c 44	N85-21768	Thermal stress minimized, two component, turbine shroud seal [NASA-CASE-LEW-14212-1]	c 37	N88-23978	Ceramic coatings on smooth surfaces [NASA-CASE-LEW-15164-1]	c 27	N91-25298
Chemical control of nadimide cure temperature and rate [NASA-CASE-LEW-13770-2]	c 25	N85-28982	Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis [NASA-CASE-LEW-14345-1]	c 23	N88-26404	Plasma gun with coaxial powder feed and adjustable cathode [NASA-CASE-LEW-14901-1]	c 75	N91-25875
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid [NASA-CASE-LEW-13102-1]	c 33	N85-29144	Arcjet power supply and start circuit [NASA-CASE-LEW-14374-1]	c 09	N88-28939	Method of injecting fluid propellants into a rocket combustion chamber [NASA-CASE-LEW-14846-2]	c 20	N91-26200
High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes [NASA-CASE-LEW-12950-2]	c 34	N85-29179	Gas particle radiator [NASA-CASE-LEW-14297-1]	c 35	N89-12048	Oxidation resistant coatings for titanium alloys and titanium alloy matrix composites [NASA-CASE-LEW-15155-1]	c 27	N91-26375
Arc spray fabrication of metal matrix composite monotape [NASA-CASE-LEW-13828-1]	c 24	N85-30027	Castable hot corrosion resistant alloy [NASA-CASE-LEW-14134-2]	c 26	N89-14303	Method of preparing a thermal barrier coating [NASA-CASE-LEW-14999-2]	c 27	N91-26376
Chemical approach for controlling nadimide cure temperature and rate [NASA-CASE-LEW-13770-6]	c 25	N85-30039	Light weight polymer matrix composite material [NASA-CASE-LEW-14734-1]	c 24	N89-23623	Removable hand hold [NASA-CASE-LEW-15196-1]	c 37	N91-26543
Variable force, eddy-current or magnetic damper [NASA-CASE-LEW-13717-1]	c 37	N85-30333	Fiber reinforced ceramic material [NASA-CASE-LEW-14392-2]	c 27	N89-29538	Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers [NASA-CASE-LEW-15222-1]	c 76	N91-26966
Vortex generating flow passage design for increased film cooling effectiveness [NASA-CASE-LEW-14039-1]	c 34	N85-33433	Adjustable depth gage [NASA-CASE-LEW-14880-1]	c 35	N90-10415	Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers [NASA-CASE-LEW-15223-1]	c 76	N91-26967
Multistage spent particle collector and a method for making same [NASA-CASE-LEW-13914-1]	c 37	N85-33489	Steam cooled rich-burn combustor liner [NASA-CASE-LEW-13609-1]	c 25	N90-11824	Furnace for tensile/fatigue testing [NASA-CASE-LEW-14848-1]	c 14	N91-27175
Dual clearance squeeze film damper [NASA-CASE-LEW-13506-1]	c 37	N85-33490	Method of forming low cost, formable High T(subc) superconducting wire [NASA-CASE-LEW-14676-2]	c 76	N90-17454	Method of making carbide/fluoride/silver composites [NASA-CASE-LEW-14902-1]	c 24	N91-27244
Thermionic photovoltaic energy converter [NASA-CASE-LEW-14077-1]	c 44	N85-34441	New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures [NASA-CASE-LEW-14346-1]	c 23	N90-19300	High-temperature, flexible, thermal barrier seal [NASA-CASE-LEW-14672-1]	c 37	N91-27560
Flow modifying device [NASA-CASE-LEW-13562-2]	c 07	N85-35195	Zero-G phase detector and separator [NASA-CASE-LEW-14844-1]	c 35	N90-22024	Quick action clamp [NASA-CASE-LEW-14887-1]	c 37	N91-27561
Thermal barrier coating system [NASA-CASE-LEW-14057-1]	c 24	N85-35233	Miniature traveling wave tube and method of making [NASA-CASE-LEW-14520-1]	c 33	N90-22724	Thin solar cell and lightweight array [NASA-CASE-LEW-14959-1]	c 44	N91-27614
Oxidation resistant slurry coating for carbon-based materials [NASA-CASE-LEW-13923-1]	c 26	N85-35267	One step HIP canning of powder metallurgy composites [NASA-CASE-LEW-14719-1]	c 24	N90-23493	Apparatus for intercalating large quantities of fibrous structures [NASA-CASE-LEW-15077-2]	c 24	N91-28289
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide [NASA-CASE-LEW-13864-1]	c 27	N86-19457	Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis [NASA-CASE-LEW-14345-2]	c 25	N90-23497	Pretreatment of lubricated surfaces with sputtered cadmium oxide [NASA-CASE-LEW-14474-1]	c 27	N91-28423
Oxidation protection coatings for polymers [NASA-CASE-LEW-14072-1]	c 27	N86-19458	Fatigue testing apparatus [NASA-CASE-LEW-14124-1]	c 35	N90-23712	Low cost, formable, high T(sub c) superconducting wire [NASA-CASE-LEW-14676-1]	c 33	N91-31529
Compliant hydrodynamic fluid journal bearing [NASA-CASE-LEW-13670-1]	c 37	N86-19606	High temperature flexible seal [NASA-CASE-LEW-14695-1]	c 37	N90-23751	Plug-type heat flux gauge [NASA-CASE-LEW-14967-1]	c 35	N91-31608
Negative electrode catalyst for the iron chromium redox energy storage system [NASA-CASE-LEW-14028-1]	c 44	N86-19721	Composite thermal barrier coating [NASA-CASE-LEW-14999-1]	c 24	N91-13500	Spectroscopic wear detector [NASA-CASE-LEW-15200-1]	c 20	N91-32167
Method for improving the fuel efficiency of a gas turbine engine [NASA-CASE-LEW-13142-2]	c 07	N86-20389	Method of making single crystal fibers [NASA-CASE-LEW-14921-1]	c 24	N91-13502	Ceramic coatings on smooth surfaces [NASA-CASE-LEW-15164-2]	c 27	N91-32229
Piezoelectric deicing device [NASA-CASE-LEW-13773-2]	c 33	N86-20671	Vinyl capped addition polyimides [NASA-CASE-LEW-15027-1]	c 27	N91-13566	Addition polyimides with enhanced processability [NASA-CASE-LEW-15043-1]	c 27	N91-32230
Hybrid power semiconductor [NASA-CASE-LEW-13922-1]	c 33	N86-20672	Real-time data compression of broadcast video signals [NASA-CASE-LEW-14945-1]	c 32	N91-13598	Extended temperature range rocket injector [NASA-CASE-LEW-14846-1]	c 20	N92-10054
Method and apparatus for rebalancing a REDOX flow cell system [NASA-CASE-LEW-14127-1]	c 33	N86-20680	Heat transfer device and method of making the same [NASA-CASE-LEW-14162-1]	c 34	N91-13668	Brominated graphitized carbon fibers [NASA-CASE-LEW-14698-2]	c 27	N92-10090
Linearized traveling wave amplifier with hard limiter characteristics [NASA-CASE-LEW-13981-2]	c 33	N86-21742	Probe insertion apparatus with inflatable seal [NASA-CASE-LEW-14965-1]	c 37	N91-13732	Real-time data compression of broadcast video signals [NASA-CASE-LEW-14945-2]	c 32	N92-10128
Variable friction secondary seal for face seals [NASA-CASE-LEW-14170-1]	c 37	N86-25790	Small particle selective emitter [NASA-CASE-LEW-14731-1]	c 44	N91-13802	Pulse thermal energy transport system [NASA-CASE-LEW-15235-1]	c 34	N92-10167
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries [NASA-CASE-LEW-13822-1]	c 44	N86-25874	Monolithic mm-wave phase shifter using optically activated superconducting switches [NASA-CASE-LEW-14878-1]	c 74	N91-13996	Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen [NASA-CASE-LEW-14973-1]	c 44	N92-10222
Apparatus for producing oxidation protection coatings for polymers [NASA-CASE-LEW-14072-2]	c 27	N86-32569	Universal nondestructive mm-wave integrated circuit test fixture [NASA-CASE-LEW-14746-1]	c 33	N91-14552	Solid lubricants on pretreated surfaces [NASA-CASE-LEW-14474-2]	c 27	N92-11186
Textured carbon surfaces on copper by sputtering [NASA-CASE-LEW-14130-1]	c 31	N86-32587	Post clamp [NASA-CASE-LEW-14862-1]	c 37	N91-14617	Method of intercalating large quantities of fibrous structures [NASA-CASE-LEW-15077-1]	c 24	N92-16025
Lithium counterdoped silicon solar cell [NASA-CASE-LEW-14177-1]	c 44	N86-32875	Graphite fluoride fiber polymer composite material [NASA-CASE-LEW-14472-1]	c 24	N91-15320	Method of making contamination-free ceramic bodies [NASA-CASE-LEW-14984-1]	c 27	N92-16122
Nickel base coating alloy [NASA-CASE-LEW-13834-1]	c 26	N87-14482	Ladder polymers for use as high temperature stable resins or coatings [NASA-CASE-LEW-14203-1]	c 27	N91-15402	High temperature, flexible pressure-actuated, brush seal [NASA-CASE-LEW-15086-1]	c 37	N92-16318
Heat exchanger for electrothermal devices [NASA-CASE-LEW-14037-1]	c 20	N87-16875	Metallic seal for thermal barrier coating systems [NASA-CASE-LEW-15020-1]	c 27	N91-15412	Three point lead screw positioning apparatus [NASA-CASE-LEW-15216-1]	c 37	N92-17678
Ion beam sputter etching [NASA-CASE-LEW-13899-1]	c 31	N87-21160	Liquid sheet radiator apparatus [NASA-CASE-LEW-14295-1]	c 31	N91-15424	Intercalated hybrid graphite fiber composite [NASA-CASE-LEW-15241-1]	c 24	N92-17861
			Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis [NASA-CASE-LEW-14345-3]	c 23	N91-17141	Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis [NASA-CASE-LEW-14345-6]	c 23	N92-17882
			Process for HIP canning of composites [NASA-CASE-LEW-14990-1-CU]	c 24	N91-17145			
			Fully articulated four-point-bend loading fixture [NASA-CASE-LEW-14776-1]	c 37	N91-21540			
			Fiber optic sensing system [NASA-CASE-LEW-14795-1]	c 74	N91-21871			

Storing fluorine gas in carbon fibers and releasing the same
 [NASA-CASE-LEW-15359-1] c 25 N92-17902
 Adjustable depth gage
 [NASA-CASE-LEW-14880-1] c 35 N92-21723
 Composite thermal barrier coating
 [NASA-CASE-LEW-14999-1] c 24 N92-21725
 Selective emitters
 [NASA-CASE-LEW-14731-1] c 44 N92-22037
 Method of producing a plug-type heat flux gauge
 [NASA-CASE-LEW-14967-2] c 35 N92-22038
 High temperature, flexible, fiber-preform seal
 [NASA-CASE-LEW-15085-1] c 37 N92-22043

National Aeronautics and Space Administration.
Manned Spacecraft Center, Cape Canaveral, FL.
 Electrode for biological recording
 [NASA-CASE-XMS-02872] c 05 N69-21925

National Aeronautics and Space Administration.
Manned Spacecraft Center, Langley Station, VA.
 Plural recorder system
 [NASA-CASE-XMS-06949] c 09 N69-21467

National Aeronautics and Space Administration.
Marshall Space Flight Center, Huntsville, AL.
 Electrical feed-through connection for printed circuit boards and printed cable
 [NASA-CASE-XMF-01483] c 14 N69-27431
 Method for detecting hydrogen gas
 [NASA-CASE-XMF-03873] c 06 N69-39733
 Electrical connector Patent Application
 [NASA-CASE-MFS-14741] c 09 N70-20737
 Angular measurement system Patent
 [NASA-CASE-XMF-00447] c 14 N70-33179
 Insulating structure Patent
 [NASA-CASE-XMF-00341] c 15 N70-33323
 Space vehicle electrical system Patent
 [NASA-CASE-XMF-00517] c 03 N70-34157
 Pivotal shock absorbing pad assembly Patent
 [NASA-CASE-XMF-03856] c 31 N70-34159
 Gimbaled, partially submerged rocket nozzle Patent
 [NASA-CASE-XMF-01544] c 28 N70-34162
 Recoverable rocket vehicle Patent
 [NASA-CASE-XMF-00389] c 31 N70-34176
 Electrical discharge apparatus for forming Patent
 [NASA-CASE-XMF-00375] c 15 N70-34249
 Optical inspection apparatus Patent
 [NASA-CASE-XMF-00462] c 14 N70-34298
 Relay binary circuit Patent
 [NASA-CASE-XMF-00421] c 09 N70-34502
 Attitude and propellant flow control system and method Patent
 [NASA-CASE-XMF-00185] c 21 N70-34539
 Electrical connector for flat cables Patent
 [NASA-CASE-XMF-00324] c 09 N70-34596
 Externally pressurized fluid bearing Patent
 [NASA-CASE-XMF-00515] c 15 N70-34664
 Force measuring instrument Patent
 [NASA-CASE-XMF-00456] c 14 N70-34705
 Seismic displacement transducer Patent
 [NASA-CASE-XMF-00479] c 14 N70-34794
 Electric arc welding Patent
 [NASA-CASE-XMF-00392] c 15 N70-34814
 Assembly for recovering a capsule Patent
 [NASA-CASE-XMF-00641] c 31 N70-36410
 Printed cable connector Patent
 [NASA-CASE-XMF-00369] c 09 N70-36494
 Landing pad assembly for aerospace vehicles Patent
 [NASA-CASE-XMF-02853] c 31 N70-36654
 Electric arc driven wind tunnel Patent
 [NASA-CASE-XMF-00411] c 11 N70-36913
 Gravity device Patent
 [NASA-CASE-XMF-00424] c 11 N70-38196
 Injector for bipropellant rocket engines Patent
 [NASA-CASE-XMF-00148] c 28 N70-38710
 Electronic motor control system Patent
 [NASA-CASE-XMF-01129] c 09 N70-38712
 Slosh suppressing device and method Patent
 [NASA-CASE-XMF-00658] c 12 N70-38997
 Air bearing Patent
 [NASA-CASE-XMF-00339] c 15 N70-39896
 Instrument support with precise lateral adjustment Patent
 [NASA-CASE-XMF-00480] c 14 N70-39898
 Segmented back-up bar Patent
 [NASA-CASE-XMF-00640] c 15 N70-39924
 Collapsible loop antenna for space vehicle Patent
 [NASA-CASE-XMF-00437] c 07 N70-40202
 Flexible back-up bar Patent
 [NASA-CASE-XMF-00722] c 15 N70-40204
 Electro-optical alignment control system Patent
 [NASA-CASE-XMF-00908] c 14 N70-40238
 Missile launch release system Patent
 [NASA-CASE-XMF-03198] c 30 N70-40353
 Double-acting shock absorber Patent
 [NASA-CASE-XMF-01045] c 15 N70-40354
 Portable alignment tool Patent
 [NASA-CASE-XMF-01452] c 15 N70-41371

Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
 [NASA-CASE-XMF-01813] c 28 N70-41582
 Unfired-ceramic flame-resistant insulation and method of making the same Patent
 [NASA-CASE-XMF-01030] c 18 N70-41583
 Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
 [NASA-CASE-XMF-00906] c 09 N70-41655
 Support apparatus for dynamic testing Patent
 [NASA-CASE-XMF-01772] c 11 N70-41677
 Locking device with rolling detents Patent
 [NASA-CASE-XMF-01371] c 15 N70-41829
 Tank construction for space vehicles Patent
 [NASA-CASE-XMF-01899] c 31 N70-41948
 Positive displacement flowmeter Patent
 [NASA-CASE-XMF-02822] c 14 N70-41994
 Hydraulic support for dynamic testing Patent
 [NASA-CASE-XMF-03248] c 11 N71-10604
 Fiber optic vibration transducer and analyzer Patent
 [NASA-CASE-XMF-02433] c 14 N71-10616
 Method and means for damping nutation in a satellite Patent
 [NASA-CASE-XMF-00442] c 31 N71-10747
 Heat pipe thermionic diode power system Patent
 [NASA-CASE-XMF-05843] c 03 N71-11055
 Synthesis of siloxane-containing epoxy polymers Patent
 [NASA-CASE-MFS-13994-1] c 06 N71-11240
 Bi-carrier demodulator with modulation Patent
 [NASA-CASE-XMF-01160] c 07 N71-11298
 Harness assembly Patent
 [NASA-CASE-MFS-14671] c 05 N71-12341
 Magnetic matrix memory system Patent
 [NASA-CASE-XMF-05835] c 08 N71-12504
 Pulse amplitude and width detector Patent
 [NASA-CASE-XMF-06519] c 09 N71-12519
 Microwave power receiving antenna Patent
 [NASA-CASE-MFS-20333] c 09 N71-13486
 Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
 [NASA-CASE-MFS-20074] c 16 N71-15565
 Reactance control system Patent
 [NASA-CASE-XMF-01598] c 21 N71-15583
 Apparatus for welding torch angle and seam tracking control Patent
 [NASA-CASE-XMF-03287] c 15 N71-15607
 Multiway vortex valve system Patent
 [NASA-CASE-XMF-04709] c 15 N71-15609
 Injector assembly for liquid fueled rocket engines Patent
 [NASA-CASE-XMF-00968] c 28 N71-15660
 Space capsule ejection assembly Patent
 [NASA-CASE-XMF-03169] c 31 N71-15675
 Air cushion lift pad Patent
 [NASA-CASE-MFS-14685] c 31 N71-15689
 Method of making a molded connector Patent
 [NASA-CASE-XMF-03498] c 15 N71-15986
 Regenerative braking system Patent
 [NASA-CASE-XMF-01096] c 10 N71-16030
 Condition and condition duration indicator Patent
 [NASA-CASE-XMF-01097] c 10 N71-16058
 Method and apparatus for securing to a spacecraft Patent
 [NASA-CASE-MFS-11133] c 31 N71-16222
 Method and apparatus of simulating zero gravity conditions Patent
 [NASA-CASE-MFS-12750] c 27 N71-16223
 Passive optical wind and turbulence detection system Patent
 [NASA-CASE-XMF-14032] c 20 N71-16340
 Serpentine Patent
 [NASA-CASE-XMF-05344] c 31 N71-16345
 Gravimeter Patent
 [NASA-CASE-XMF-05844] c 14 N71-17587
 High pressure gas filter system Patent
 [NASA-CASE-MFS-12806] c 14 N71-17588
 Burst diaphragm flow initiator Patent
 [NASA-CASE-MFS-12915] c 11 N71-17600
 Vacuum deposition apparatus Patent
 [NASA-CASE-XMF-01667] c 15 N71-17647
 Quick disconnect latch and handle combination Patent
 [NASA-CASE-MFS-11132] c 15 N71-17649
 Method and apparatus for precision sizing and joining of large diameter tubes Patent
 [NASA-CASE-XMF-05114] c 15 N71-17650
 Low temperature flexure fatigue cryostat Patent
 [NASA-CASE-XMF-02964] c 14 N71-17659
 Precision stepping drive Patent
 [NASA-CASE-MFS-14772] c 15 N71-17692
 Multi-mission module Patent
 [NASA-CASE-XMF-01543] c 31 N71-17730
 Ratchet mechanism Patent
 [NASA-CASE-MFS-12805] c 15 N71-17805

Method of making impurity-type semiconductor electrical contacts Patent
 [NASA-CASE-XMF-01016] c 26 N71-17818
 Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
 [NASA-CASE-MFS-13686] c 15 N71-18132
 Static inverters which sum a plurality of waves Patent
 [NASA-CASE-XMF-00663] c 08 N71-18752
 Space environmental work simulator Patent
 [NASA-CASE-XMF-07488] c 11 N71-18773
 Space manufacturing machine Patent
 [NASA-CASE-MFS-20410] c 15 N71-19214
 Extensometer Patent
 [NASA-CASE-XMF-04680] c 15 N71-19489
 Mechanical simulator of low gravity conditions Patent
 [NASA-CASE-MFS-10555] c 11 N71-19494
 Weld control system using thermocouple wire Patent
 [NASA-CASE-MFS-06074] c 15 N71-20393
 Evaporant source for vapor deposition Patent
 [NASA-CASE-XMF-06065] c 15 N71-20395
 Satellite despin device Patent
 [NASA-CASE-MFS-08523] c 31 N71-20396
 Method of coating circuit paths on printed circuit boards with solder Patent
 [NASA-CASE-XMF-01599] c 09 N71-20705
 Elastomeric silazane polymers and process for preparing the same Patent
 [NASA-CASE-XMF-04133] c 06 N71-20717
 Method of producing alternating ether siloxane copolymers Patent
 [NASA-CASE-XMF-02584] c 06 N71-20905
 Honeycomb panel and method of making same Patent
 [NASA-CASE-XMF-01402] c 18 N71-21651
 Portable milling tool Patent
 [NASA-CASE-XMF-03511] c 15 N71-22799
 Energy absorbing device Patent
 [NASA-CASE-XMF-10040] c 15 N71-22877
 Continuous detonation reaction engine Patent
 [NASA-CASE-XMF-06926] c 28 N71-22983
 Adaptive tracking notch filter system Patent
 [NASA-CASE-XMF-01892] c 10 N71-22986
 Meteorological balloon Patent
 [NASA-CASE-XMF-04163] c 02 N71-23007
 Continuous turning slip ring assembly Patent
 [NASA-CASE-XMF-01049] c 15 N71-23049
 Automatic welding speed controller Patent
 [NASA-CASE-XMF-01730] c 15 N71-23050
 Positive dc to positive dc converter Patent
 [NASA-CASE-XMF-14301] c 09 N71-23188
 Zero gravity apparatus Patent
 [NASA-CASE-XMF-06515] c 14 N71-23227
 Positive dc to negative dc converter Patent
 [NASA-CASE-XMF-08217] c 03 N71-23239
 Evacuation port seal Patent
 [NASA-CASE-XMF-03290] c 15 N71-23256
 Azimuth laying system Patent
 [NASA-CASE-XMF-01669] c 21 N71-23289
 Electron beam instrument for measuring electric fields Patent
 [NASA-CASE-XMF-10289] c 14 N71-23699
 Anemometer with braking mechanism Patent
 [NASA-CASE-XMF-05224] c 14 N71-23726
 Apparatus for testing a pressure responsive instrument Patent
 [NASA-CASE-XMF-04134] c 14 N71-23755
 Electric welding torch Patent
 [NASA-CASE-XMF-02330] c 15 N71-23798
 Swivel support for gas bearings Patent
 [NASA-CASE-XMF-07808] c 15 N71-23812
 Welding skate with computerized control Patent
 [NASA-CASE-XMF-07069] c 15 N71-23815
 Docking structure for spacecraft Patent
 [NASA-CASE-XMF-05941] c 31 N71-23912
 High pressure helium purifier Patent
 [NASA-CASE-XMF-06888] c 15 N71-24044
 Horizontal cryostat for fatigue testing Patent
 [NASA-CASE-XMF-10968] c 14 N71-24234
 Method for leakage testing of tanks Patent
 [NASA-CASE-XMF-02392] c 32 N71-24285
 Internal flare angle gauge Patent
 [NASA-CASE-XMF-04415] c 14 N71-24693
 Pulse rise time and amplitude detector Patent
 [NASA-CASE-XMF-08804] c 09 N71-24717
 System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
 [NASA-CASE-XMF-06892] c 09 N71-24805
 Power system with heat pipe liquid coolant lines Patent
 [NASA-CASE-MFS-14114-2] c 09 N71-24807
 Magnetomotive metal working device Patent
 [NASA-CASE-XMF-03793] c 15 N71-24833
 Apparatus for determining the deflection of an electron beam impinging on a target Patent
 [NASA-CASE-XMF-06617] c 09 N71-24843

Transistor servo system including a unique differential amplifier circuit Patent					Digital computing cardiometer				
[NASA-CASE-XMF-05195]	c 10	N71-24861			[NASA-CASE-MFS-20284-1]	c 52	N74-12778		
RC rate generator for slow speed measurement Patent					Integrated circuit package with lead structure and method of preparing the same				
[NASA-CASE-XMF-02966]	c 10	N71-24863			[NASA-CASE-MFS-21374-1]	c 33	N74-12951		
Method and apparatus for precision sizing and joining of large diameter tubes Patent					Vee-notching device				
[NASA-CASE-XMF-05114-3]	c 15	N71-24885			[NASA-CASE-MFS-20730-1]	c 39	N74-13131		
Duct coupling for single-handed operation Patent					Ultrasonic scanning system for in-place inspection of brazed tube joints				
[NASA-CASE-MFS-20395]	c 15	N71-24903			[NASA-CASE-MFS-20767-1]	c 38	N74-15130		
Brushless direct current tachometer Patent					Method and apparatus for checking the stability of a setup for making reflection type holograms				
[NASA-CASE-MFS-20385]	c 09	N71-24904			[NASA-CASE-MFS-21455-1]	c 35	N74-15146		
Self-lubricating gears and other mechanical parts Patent					Method and apparatus for nondestructive testing				
[NASA-CASE-MFS-14971]	c 15	N71-24984			[NASA-CASE-MFS-21233-1]	c 38	N74-15395		
Pulse width inverter Patent					Real time moving scene holographic camera system				
[NASA-CASE-MFS-10068]	c 10	N71-25139			[NASA-CASE-MFS-21087-1]	c 35	N74-17153		
Isothermal cover with thermal reservoirs Patent					Nonflammable coating compositions				
[NASA-CASE-MFS-20355]	c 33	N71-25353			[NASA-CASE-MFS-20486-2]	c 27	N74-17283		
Storage container for electronic devices Patent					Metering gun for dispensing precisely measured charges of fluid				
[NASA-CASE-MFS-20075]	c 09	N71-26133			[NASA-CASE-MFS-21163-1]	c 54	N74-17853		
Method and apparatus for precision sizing and joining of large diameter tubes Patent					Omnidirectional wheel				
[NASA-CASE-XMF-05114-2]	c 15	N71-26148			[NASA-CASE-MFS-21309-1]	c 37	N74-18125		
Filter system for control of outgas contamination in vacuum Patent					Reinforced polyquinoxaline gasket and method of preparing the same				
[NASA-CASE-MFS-14711]	c 15	N71-26185			[NASA-CASE-MFS-21364-1]	c 37	N74-18126		
Image magnification adapter for cameras Patent					Manual actuator				
[NASA-CASE-XMF-03844-1]	c 14	N71-26474			[NASA-CASE-MFS-21481-1]	c 37	N74-18127		
Thickness measuring and injection device Patent					Cryogenic gyroscope housing				
[NASA-CASE-MFS-20261]	c 14	N71-27005			[NASA-CASE-MFS-21136-1]	c 35	N74-18323		
Personal propulsion unit Patent					Automatic frequency control for FM transmitter				
[NASA-CASE-MFS-20130]	c 28	N71-27585			[NASA-CASE-MFS-21540-1]	c 32	N74-19790		
Power system with heat pipe liquid coolant lines Patent					Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver				
[NASA-CASE-MFS-14114]	c 33	N71-27862			[NASA-CASE-MFS-21470-1]	c 44	N74-19870		
Method of making shielded flat cable Patent					Reduced gravity fecal collector seat and urinal				
[NASA-CASE-MFS-13687]	c 09	N71-28691			[NASA-CASE-MFS-22102-1]	c 54	N74-20725		
A dc motor speed control system Patent					Metabolic analyzer				
[NASA-CASE-MFS-14610]	c 09	N71-28886			[NASA-CASE-MFS-21415-1]	c 52	N74-20728		
Cryogenic thermal insulation Patent					Automatic quadrature control and measuring system				
[NASA-CASE-XMF-05046]	c 33	N71-28892			[NASA-CASE-MFS-21660-1]	c 35	N74-21017		
Method of coating through-holes Patent					Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids				
[NASA-CASE-XMF-05999]	c 15	N71-29032			[NASA-CASE-MFS-22411-1]	c 37	N74-21058		
Response analyzers for sensors Patent					Airlock				
[NASA-CASE-MFS-11204]	c 14	N71-29134			[NASA-CASE-MFS-20922-1]	c 18	N74-22136		
Current regulating voltage divider					Low distortion automatic phase control circuit				
[NASA-CASE-MFS-20935]	c 09	N71-34212			[NASA-CASE-MFS-21671-1]	c 33	N74-22885		
Nuclear mass flowmeter					Two speed drive system				
[NASA-CASE-MFS-20485]	c 14	N72-11365			[NASA-CASE-MFS-20645-1]	c 37	N74-23070		
Fine adjustment mount					Insert facing tool				
[NASA-CASE-MFS-20249]	c 15	N72-11386			[NASA-CASE-MFS-21485-1]	c 37	N74-25968		
Method of making foamed materials in zero gravity					LC-oscillator with automatic stabilized amplitude via bias current control				
[NASA-CASE-XMF-09902]	c 15	N72-11387			[NASA-CASE-MFS-21698-1]	c 33	N74-26732		
Air bearing assembly for curved surfaces					Device for monitoring a change in mass in varying gravimetric environments				
[NASA-CASE-MFS-20423]	c 15	N72-11388			[NASA-CASE-MFS-21556-1]	c 35	N74-26945		
Stud-bonding gun					Holography utilizing surface plasmon resonances				
[NASA-CASE-MFS-20299]	c 15	N72-11392			[NASA-CASE-MFS-22040-1]	c 35	N74-26946		
Apparatus for obtaining isotropic irradiation of a specimen					Electrophoretic sample insertion				
[NASA-CASE-MFS-20095]	c 24	N72-11595			[NASA-CASE-MFS-21395-1]	c 25	N74-26948		
Wind tunnel test section					Sprag solenoid brake				
[NASA-CASE-MFS-20509]	c 11	N72-17183			[NASA-CASE-MFS-21846-1]	c 37	N74-26976		
Multiple image storing system for high speed projectile holography					Device for configuring multiple leads				
[NASA-CASE-MFS-20596]	c 14	N72-17324			[NASA-CASE-MFS-22133-1]	c 33	N74-26977		
Method of manufacturing semiconductor devices using refractory dielectrics					Thrust-isolating mounting				
[NASA-CASE-XER-08476-1]	c 26	N72-17820			[NASA-CASE-MFS-21680-1]	c 18	N74-27397		
Underwater space suit pressure control regulator					Battery testing device				
[NASA-CASE-MFS-20332]	c 05	N72-20097			[NASA-CASE-MFS-20761-1]	c 44	N74-27519		
Apparatus for making diamonds					Apparatus for establishing flow of a fluid mass having a known velocity				
[NASA-CASE-MFS-20698]	c 15	N72-20446			[NASA-CASE-MFS-21424-1]	c 34	N74-27730		
An airlock					Apparatus for conducting flow electrophoresis in the substantial absence of gravity				
[NASA-CASE-MFS-20922]	c 31	N72-20840			[NASA-CASE-MFS-21394-1]	c 34	N74-27744		
Photoetching of metal-oxide layers					Steady state thermal radiometers				
[NASA-CASE-ERC-10108]	c 06	N72-21094			[NASA-CASE-MFS-21108-1]	c 34	N74-27861		
Liquid aerosol dispenser					Conductive elastomeric extensometer				
[NASA-CASE-MFS-20829]	c 12	N72-21310			[NASA-CASE-MFS-21049-1]	c 52	N74-27864		
Optical probing of supersonic flows with statistical correlation					Device for measuring tensile forces				
[NASA-CASE-MFS-20642]	c 14	N72-21407			[NASA-CASE-MFS-21728-1]	c 35	N74-27865		
Mechanically actuated triggered hand					Three mirror glancing incidence system for X-ray telescope				
[NASA-CASE-MFS-20413]	c 15	N72-21463			[NASA-CASE-MFS-21372-1]	c 74	N74-27866		
Hermetically sealed elbow actuator					Flame detector operable in presence of proton radiation				
[NASA-CASE-MFS-14710]	c 09	N72-22195			[NASA-CASE-MFS-21577-1]	c 19	N74-29410		
Shielded flat cable					Integrated P-channel MOS gyrator				
[NASA-CASE-MFS-13687-2]	c 09	N72-22198			[NASA-CASE-MFS-22343-1]	c 33	N74-34638		
Shock wave convergence apparatus					System for depositing thin films				
[NASA-CASE-MFS-20890]	c 14	N72-22439			[NASA-CASE-MFS-20775-1]	c 31	N75-12161		
Bonding of reinforced Teflon to metals					Ultrasonic bone densitometer				
[NASA-CASE-MFS-20482]	c 15	N72-22492			[NASA-CASE-MFS-20994-1]	c 35	N75-12271		
Inorganic thermal control coatings									
[NASA-CASE-MFS-20011]	c 18	N72-22566							
High temperature furnace for melting materials in space									
[NASA-CASE-MFS-20710]	c 11	N72-23215							
Siloxane containing epoxide compounds									
[NASA-CASE-MFS-13994-2]	c 06	N72-25148							
Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups									
[NASA-CASE-MFS-20979]	c 06	N72-25151							
Emergency lunar communications system									
[NASA-CASE-MFS-21042]	c 07	N72-25171							
Lead attachment to high temperature devices									
[NASA-CASE-ERC-10224]	c 09	N72-25261							
Device for measuring bearing preload									
[NASA-CASE-MFS-20434]	c 11	N72-25288							
Altitude simulation chamber for rocket engine testing									
[NASA-CASE-MFS-20620]	c 11	N72-27262							
Fixture for supporting articles during vibration tests									
[NASA-CASE-MFS-20523]	c 14	N72-27412							
Electrical connector									
[NASA-CASE-MFS-20757]	c 09	N72-28225							
Remote control manipulator for zero gravity environment									
[NASA-CASE-MFS-14405]	c 15	N72-28495							
Thermal compensating structural member									
[NASA-CASE-MFS-20433]	c 15	N72-28496							
Semiconductor transducer device									
[NASA-CASE-ERC-10087-2]	c 14	N72-31446							
Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc									
[NASA-CASE-MFS-20589]	c 25	N72-32688							
Process for the preparation of brushite crystals									
[NASA-CASE-ERC-10338]	c 04	N72-33072							
Adjustable force probe									
[NASA-CASE-MFS-20760]	c 14	N72-33377							
Polyimide resin-fiberglass cloth laminates for printed circuit boards									
[NASA-CASE-MFS-20408]	c 18	N73-12604							
Differential pressure control									
[NASA-CASE-MFS-14216]	c 14	N73-13418							
Redundant hydraulic control system for actuators									
[NASA-CASE-MFS-20944]	c 15	N73-13466							
Device and method for determining X ray reflection efficiency of optical surfaces									
[NASA-CASE-MFS-20243]	c 23	N73-13662							
Process for making diamonds									
[NASA-CASE-MFS-20698-2]	c 15	N73-19457							
Test stand system for vacuum chambers									
[NASA-CASE-MFS-21362]	c 11	N73-20267							
Material fatigue testing system									
[NASA-CASE-MFS-20673]	c 14	N73-20476							
Ratemeter									
[NASA-CASE-MFS-20418]	c 14	N73-24473							
Underwater space suit pressure control regulator									
[NASA-CASE-MFS-20332-2]	c 05	N73-25125							
Maxometers (peak wind speed anemometers)									
[NASA-CASE-MFS-20916]	c 14	N73-25460							
Monitoring deposition of films									
[NASA-CASE-MFS-20675]	c 26	N73-26751							
Docking structure for spacecraft									
[NASA-CASE-MFS-20863]	c 31	N73-26876							
Wide temperature range electronic device with lead attachment									
[NASA-CASE-ERC-10224-2]	c 09	N73-27150							
Restraint system for ergometer									
[NASA-CASE-MFS-21046-1]	c 14	N73-27377							
Apparatus and method for skin packaging articles									
[NASA-CASE-MFS-20855]	c 15	N73-27405							
Ergometer									
[NASA-CASE-MFS-21109-1]	c 05	N73-27941							
Tilting table for ergometer and for other biomedical devices									
[NASA-CASE-MFS-21010-1]	c 05	N73-30078							
Measurement system									
[NASA-CASE-MFS-20658-1]	c 14	N73-30386							
Collimator of multiple plates with axially aligned identical random arrays of apertures									
[NASA-CASE-MFS-20546-2]	c 14	N73-30389							
Holographic thin film analyzer									
[NASA-CASE-MFS-20823-1]	c 16	N73-30476							
Semiconductor surface protection material									
[NASA-CASE-ERC-10339-1]	c 18	N73-30532							
Polymerizable disilanol having in-chain perfluoroalkyl groups									
[NASA-CASE-MFS-20979-2]	c 06	N73-32030							
Redundant speed control for brushless Hall effect motor									
[NASA-CASE-MFS-20207-1]	c 09	N73-32107							
Induction motor control system with voltage controlled oscillator circuit									
[NASA-CASE-MFS-21465-1]	c 10	N73-32145							
Synthesis of superconducting compounds by explosive compaction of powders									
[NASA-CASE-MFS-20861-1]	c 18	N73-32437							
Ultrasonic scanner for radial and flat panels									
[NASA-CASE-MFS-20335-1]	c 35	N74-10415							

Strain gauge ambiguity sensor for segmented mirror active optical system				Remote manipulator system			Method for measuring biaxial stress in a body subjected to stress inducing loads		
[NASA-CASE-MFS-20506-1]	c 35	N75-12273		[NASA-CASE-MFS-22022-1]	c 37	N76-15460	[NASA-CASE-MFS-23299-1]	c 39	N77-28511
Orthotic arm joint				Thermoelectric power system			Method for attaching a fused-quartz mirror to a conductive metal substrate		
[NASA-CASE-MFS-21611-1]	c 54	N75-12616		[NASA-CASE-MFS-22002-1]	c 44	N76-16612	[NASA-CASE-MFS-23405-1]	c 26	N77-29260
Automatically operable self-leveling load table				Self-energized plasma compressor			Method of preparing zinc orthotitanate pigment		
[NASA-CASE-MFS-22039-1]	c 09	N75-12968		[NASA-CASE-MFS-22145-2]	c 75	N76-17951	[NASA-CASE-MFS-23345-1]	c 27	N77-30237
Phase-locked servo system				Device for measuring the ferrite content in an austenitic stainless-steel weld			Accumulator		
[NASA-CASE-MFS-22073-1]	c 33	N75-13139		[NASA-CASE-MFS-22907-1]	c 26	N76-18257	[NASA-CASE-MFS-19287-1]	c 34	N77-30399
Self-energized plasma compressor				Heat transfer device			Tachometer		
[NASA-CASE-MFS-22145-1]	c 75	N75-13625		[NASA-CASE-MFS-22938-1]	c 34	N76-18374	[NASA-CASE-MFS-23175-1]	c 35	N77-30436
Clear air turbulence detector				Holographic motion picture camera with Doppler shift compensation			Real time reflectometer		
[NASA-CASE-MFS-21244-1]	c 36	N75-15028		[NASA-CASE-MFS-22517-1]	c 35	N76-18402	[NASA-CASE-MFS-23118-1]	c 35	N77-31465
Variable frequency inverter for ac induction motors with torque, speed and braking control				Method of peening and portable peening gun			Method of crystallization		
[NASA-CASE-MFS-22088-1]	c 33	N75-15874		[NASA-CASE-MFS-23047-1]	c 37	N76-18454	[NASA-CASE-MFS-23001-1]	c 76	N77-32919
Leak detector				Mixing insert for foam dispensing apparatus			Power factor control system for AC induction motors		
[NASA-CASE-MFS-21761-1]	c 35	N75-15931		[NASA-CASE-MFS-20607-1]	c 37	N76-19436	[NASA-CASE-MFS-23280-1]	c 33	N78-10376
Ergometer calibrator				Traffic survey system			Germanium coated microbridge and method		
[NASA-CASE-MFS-21045-1]	c 35	N75-15932		[NASA-CASE-MFS-22631-1]	c 66	N76-19888	[NASA-CASE-MFS-23274-1]	c 33	N78-13320
Space vehicle				Electronic optical transfer function analyzer			Laser extensometer		
[NASA-CASE-MFS-22734-1]	c 18	N75-19329		[NASA-CASE-MFS-21672-1]	c 74	N76-19935	[NASA-CASE-MFS-19259-1]	c 36	N78-14380
Meter for use in detecting tension in straps having predetermined elastic characteristics				System for imposing directional stability on a rocket-propelled vehicle			Method of and means for testing a glancing-incidence mirror system of an X-ray telescope		
[NASA-CASE-MFS-22189-1]	c 35	N75-19615		[NASA-CASE-MFS-21311-1]	c 20	N76-21275	[NASA-CASE-MFS-22409-2]	c 74	N78-15880
Multiplate focusing collimator				Filtering device			Projection system for display of parallax and perspective		
[NASA-CASE-MFS-20932-1]	c 35	N75-19616		[NASA-CASE-MFS-22729-1]	c 32	N76-21366	[NASA-CASE-MFS-23194-1]	c 35	N78-17357
Latching device				Translatory shock absorber for attitude sensors			Gas ion laser construction for electrically isolating the pressure gauge thereof		
[NASA-CASE-MFS-21606-1]	c 37	N75-19685		[NASA-CASE-MFS-22905-1]	c 19	N76-22284	[NASA-CASE-MFS-22597-1]	c 36	N78-17366
Internally supported flexible duct joint				Device for installing rocket engines			Wrist joint assembly		
[NASA-CASE-MFS-19193-1]	c 37	N75-19686		[NASA-CASE-MFS-19220-1]	c 20	N76-22296	[NASA-CASE-MFS-23311-1]	c 54	N78-17676
Pseudo-noise test set for communication system evaluation				Deployable flexible tunnel			Semiconductor projectile impact detector		
[NASA-CASE-MFS-22671-1]	c 35	N75-21582		[NASA-CASE-MFS-22636-1]	c 37	N76-22540	[NASA-CASE-MFS-23008-1]	c 35	N78-18390
Device for use in loading tension members				Solar energy absorber			Sprayable low density ablator and application process		
[NASA-CASE-MFS-21488-1]	c 14	N75-24794		[NASA-CASE-MFS-22743-1]	c 44	N76-22657	[NASA-CASE-MFS-23506-1]	c 24	N78-24290
Holographic system for nondestructive testing				Apparatus for reducing aerodynamic noise in a wind tunnel			Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction		
[NASA-CASE-MFS-21704-1]	c 35	N75-25124		[NASA-CASE-MFS-23099-1]	c 09	N76-23273	[NASA-CASE-MFS-23315-1]	c 76	N78-24950
Hole cutter				Solar energy power system			Tetherline system for orbiting satellites		
[NASA-CASE-MFS-22649-1]	c 37	N75-25186		[NASA-CASE-MFS-21628-2]	c 44	N76-23675	[NASA-CASE-MFS-23564-1]	c 15	N78-25119
Apparatus for calibrating an image dissector tube				Solar energy trap			Method and apparatus for conditioning of nickel-cadmium batteries		
[NASA-CASE-MFS-22208-1]	c 33	N75-26244		[NASA-CASE-MFS-22744-1]	c 44	N76-24696	[NASA-CASE-MFS-23270-1]	c 44	N78-25531
Method of determining bond quality of power transistors attached to substrates				Failure detection and control means for improved drift performance of a gimbaled platform system			Passive propellant system		
[NASA-CASE-MFS-21931-1]	c 37	N75-26372		[NASA-CASE-MFS-23551-1]	c 04	N76-26175	[NASA-CASE-MFS-23642-2]	c 20	N78-27176
Anti-gravity device				Lead-oxygen dc power supply system having a closed loop oxygen and water system			Field effect transistor and method of construction thereof		
[NASA-CASE-MFS-22758-1]	c 70	N75-26789		[NASA-CASE-MFS-23059-1]	c 44	N76-27664	[NASA-CASE-MFS-23312-1]	c 33	N78-27326
Brazing alloy binder				Thermal energy storage system			Plasma cleaning device		
[NASA-CASE-XMF-05868]	c 26	N75-27125		[NASA-CASE-MFS-23167-1]	c 44	N76-31667	[NASA-CASE-MFS-22906-1]	c 75	N78-27913
Brazing alloy composition				Aircraft-mounted crash-activated transmitter device			Process for spinning flame retardant elastomeric compositions		
[NASA-CASE-XMF-06053]	c 26	N75-27126		[NASA-CASE-MFS-16609-3]	c 03	N76-32140	[NASA-CASE-MSC-14331-3]	c 27	N78-32262
Refractory porcelain enamel passive control coating for high temperature alloys				Multiple in-line docking capability for rotating space stations			Velocity measurement system		
[NASA-CASE-MFS-22324-1]	c 27	N75-27160		[NASA-CASE-MFS-20855-1]	c 15	N77-10112	[NASA-CASE-MFS-23363-1]	c 35	N78-32396
Real time, large volume, moving scene holographic camera system				Attitude control system			Hybrid holographic non-destructive test system		
[NASA-CASE-MFS-22537-1]	c 35	N75-27328		[NASA-CASE-MFS-22787-1]	c 15	N77-10113	[NASA-CASE-MFS-23114-1]	c 38	N78-32447
Method and apparatus for vibration analysis utilizing the Mossbauer effect				Heat exchanger			FM/CW radar system		
[NASA-CASE-XMF-05882]	c 35	N75-27329		[NASA-CASE-MFS-22991-1]	c 34	N77-10463	[NASA-CASE-MFS-22234-1]	c 32	N79-10264
Method of preparing graphite reinforced aluminum composite				Focused laser Doppler velocimeter			Method of obtaining intensified image from developed photographic films and plates		
[NASA-CASE-MFS-21077-1]	c 24	N75-28135		[NASA-CASE-MFS-23178-1]	c 35	N77-10493	[NASA-CASE-MFS-23461-1]	c 35	N79-10389
Carbon monoxide monitor				Photovoltaic cell array			Computerized system for translating a torch head		
[NASA-CASE-MFS-22060-1]	c 35	N75-29380		[NASA-CASE-MFS-22458-1]	c 44	N77-10635	[NASA-CASE-MFS-23620-1]	c 37	N79-10421
Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphthalic anhydrides				[NASA-CASE-MFS-23362-1]	c 47	N77-10753	Rotatable mass for a flywheel		
[NASA-CASE-MFS-22356-1]	c 23	N75-30256		Mechanical thermal motor			[NASA-CASE-MFS-23051-1]	c 37	N79-10422
Integrable power gyrator				[NASA-CASE-MFS-23062-1]	c 37	N77-12402	Water system virus detection		
[NASA-CASE-MFS-22342-1]	c 33	N75-30428		Solid-state current transformer			[NASA-CASE-MSC-16098-1]	c 51	N79-10693
Isolated output system for a class D switching-mode amplifier				[NASA-CASE-MFS-22560-1]	c 33	N77-14335	Anastigmatic three-mirror telescope		
[NASA-CASE-MFS-21616-1]	c 33	N75-30429		Actuator device for artificial leg			[NASA-CASE-MFS-23675-1]	c 89	N79-10969
Solar energy power system				[NASA-CASE-MFS-23225-1]	c 52	N77-14735	Apparatus for assembling space structure		
[NASA-CASE-MFS-21628-1]	c 44	N75-32581		Frequency modulated oscillator			[NASA-CASE-MFS-23579-1]	c 18	N79-11108
System for enhancing tool-exchange capabilities of a portable wrench				[NASA-CASE-MFS-23181-1]	c 33	N77-17351	Spherical bearing		
[NASA-CASE-MFS-22283-1]	c 37	N75-33395		Method of and means for testing a tape record/playback system			[NASA-CASE-MFS-23447-1]	c 37	N79-11404
Externally supported internally stabilized flexible duct joint				[NASA-CASE-MFS-22671-2]	c 35	N77-17426	Method for making an aluminum or copper substrate panel for selective absorption of solar energy		
[NASA-CASE-MFS-19194-1]	c 37	N76-14460		Notch filter			[NASA-CASE-MFS-23518-1]	c 44	N79-11469
Quick disconnect filter coupling				[NASA-CASE-MFS-23303-1]	c 32	N77-18307	System for the measurement of ultra-low stray light levels		
[NASA-CASE-MFS-22323-1]	c 37	N76-14463		Guide for a typewriter			[NASA-CASE-MFS-23513-1]	c 74	N79-11865
Panel for selectively absorbing solar thermal energy and the method of producing said panel				[NASA-CASE-MFS-15218-1]	c 37	N77-19457	Simulator method and apparatus for practicing the mating of an observer-controlled object with a target		
[NASA-CASE-MFS-22562-1]	c 44	N76-14595		Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking			[NASA-CASE-MFS-23052-2]	c 74	N79-13855
Rapid activation and checkout device for batteries				[NASA-CASE-MFS-23267-1]	c 35	N77-20401	Multilevel metallization method for fabricating a metal oxide semiconductor device		
[NASA-CASE-MFS-22749-1]	c 44	N76-14601		Emergency descent device			[NASA-CASE-MFS-23541-1]	c 76	N79-14906
Two stage light gas-plasma projectile accelerator				[NASA-CASE-MFS-23074-1]	c 54	N77-21844	Direct current transformer		
[NASA-CASE-MFS-22287-1]	c 75	N76-14931		Device for tensioning test specimens within an hermetically sealed chamber			[NASA-CASE-MFS-23659-1]	c 33	N79-17133
Polyimides of ether-linked aryl tetracarboxylic dianhydrides				[NASA-CASE-MFS-23281-1]	c 35	N77-22450	Method of making a rocket nozzle		
[NASA-CASE-MFS-22355-1]	c 23	N76-15268		Combined docking and grasping device			[NASA-CASE-XMF-06884-1]	c 20	N79-21123
Remotely operable articulated manipulator				[NASA-CASE-MFS-23088-1]	c 37	N77-23483	Fluid thrust control system		
[NASA-CASE-MFS-22707-1]	c 37	N76-15457		Method of growing composites of the type exhibiting the Soret effect			[NASA-CASE-XMF-05964-1]	c 20	N79-21124
				[NASA-CASE-MFS-22926-1]	c 24	N77-27187	Rocket injector head		
							[NASA-CASE-XMF-04592-1]	c 20	N79-21125

C-43

Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752

Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352

Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368

Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595

Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598

Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055

Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698

Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736

Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738

Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355

Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420

Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670

High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971

Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037

Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493

Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817

Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111

Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333

Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410

Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977

Apparatus and method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944

Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689

Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874

Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491

Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601

Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843

Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862

Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360

Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362

Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835

Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845

Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959

Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974

Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979

Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980

Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163

Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544

Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545

Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817

Planar thin film SQUID with integral flux concentrator
[NASA-CASE-MFS-28282-1] c 76 N88-29602

Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868

A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253

Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689

Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202

Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556

Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603

Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793

Universal precision sine bar attachment
[NASA-CASE-MFS-28253-1] c 37 N89-28831

Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717

Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154

A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492

Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602

Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896

Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209

Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242

High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415

High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480

Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586

Crystal growth apparatus
[NASA-CASE-MFS-28182-1] c 76 N90-24169

Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168

Rotating unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304

Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861

Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940

Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112

Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594

Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N90-27595

Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729

Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731

Wide acceptance angle, high concentration ratio, optical collector
[NASA-CASE-MFS-28295-1] c 74 N91-13999

Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096

Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462

Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508

Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563

Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608

System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613

X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835

Piezoelectrostatic generator
[NASA-CASE-MFS-28298-1] c 76 N91-14872

Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333

Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N91-15368

Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N91-15519

Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661

Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815

Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250

O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N91-21175

Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496

Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545

Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N91-23933

Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155

Thermally isolated deployable shield for spacecraft
[NASA-CASE-MFS-28524-1] c 18 N91-25167

Apparatus for joining trusses
[NASA-CASE-MFS-28545-1] c 31 N91-25306

Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N91-25335

Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388

Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459

Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542

Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968

Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200

Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795

Electromagnetic Meissner effect launcher
[NASA-CASE-MFS-28323-1] c 14 N92-15081

Sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N92-16123

System for testing bearings
[NASA-CASE-MFS-28589-1] c 37 N92-17584

Automatic locking orthotic knee device
[NASA-CASE-MFS-28633-1] c 54 N92-17866

Production of multile fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870

National Aeronautics and Space Administration.
National Space Technology Labs., Bay Saint Louis, MS.
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

National Aeronautics and Space Administration.
Pasadena Office, CA.
Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206

Method of forming diffractive polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710

Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317

Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749

Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090

Temperature compensated digital inertial sensor
[NASA-CASE-NPO-13044-1] c 35 N74-15094

Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127

Short range laser obstacle detector
[NASA-CASE-NPO-11856-1] c 36 N74-15145

System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927

Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928

Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090

Heat transfer device		Brazing alloy		Indicator providing continuous indication of the presence of a specific pollutant in air	
[NASA-CASE-NPO-11120-1]	c 34 N74-18552	[NASA-CASE-XNP-03878]	c 26 N75-27127	[NASA-CASE-NPO-13474-1]	c 45 N76-21742
Storage battery comprising negative plates of a wedge shaped configuration		Very high intensity light source using a cathode ray tube		Shared memory for a fault-tolerant computer	
[NASA-CASE-NPO-11806-1]	c 44 N74-19693	[NASA-CASE-XNP-01296]	c 33 N75-27250	[NASA-CASE-NPO-13139-1]	c 60 N76-21914
Gated compressor, distortionless signal limiter		Fluorescence detector for monitoring atmospheric pollutants		Wind sensor	
[NASA-CASE-NPO-11820-1]	c 32 N74-19788	[NASA-CASE-NPO-13231-1]	c 45 N75-27585	[NASA-CASE-NPO-13462-1]	c 35 N76-24524
Apparatus for scanning the surface of a cylindrical body		Cooperative multi-axis sensor for teleoperation of article manipulating apparatus		Fiber distributed feedback laser	
[NASA-CASE-NPO-11861-1]	c 36 N74-20009	[NASA-CASE-NPO-13386-1]	c 54 N75-27758	[NASA-CASE-NPO-13531-1]	c 36 N76-24553
Decision feedback loop for tracking a polyphase modulated carrier		Heat sterilizable patient ventilator		Method of forming a wick for a heat pipe	
[NASA-CASE-NPO-13103-1]	c 32 N74-20811	[NASA-CASE-NPO-13313-1]	c 54 N75-27761	[NASA-CASE-NPO-13391-1]	c 34 N76-27515
Optically actuated two position mechanical mover		Method of heat treating age-hardenable alloys		Method and apparatus for nondestructive testing of pressure vessels	
[NASA-CASE-NPO-13105-1]	c 37 N74-21060	[NASA-CASE-XNP-01311]	c 26 N75-29236	[NASA-CASE-NPO-12142-1]	c 38 N76-28563
Flow control valve		Satellite aided vehicle avoidance system		Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback	
[NASA-CASE-NPO-11951-1]	c 37 N74-21065	[NASA-CASE-ERC-10419-1]	c 03 N75-30132	[NASA-CASE-NPO-13346-1]	c 36 N76-29575
Thin film gauge		Refrigerated coaxial coupling		Stirling cycle engine and refrigeration systems	
[NASA-CASE-NPO-10617-1]	c 35 N74-22095	[NASA-CASE-NPO-13504-1]	c 33 N75-30430	[NASA-CASE-NPO-13613-1]	c 37 N76-29590
High isolation RF signal selection switches		Electric power generation system directory from laser power		Hydrogen rich gas generator	
[NASA-CASE-NPO-13081-1]	c 33 N74-22814	[NASA-CASE-NPO-13308-1]	c 36 N75-30524	[NASA-CASE-NPO-13342-2]	c 44 N76-29700
Single reflector interference spectrometer and drive system therefor		Subminiature insertable force transducer		Solar-powered pump	
[NASA-CASE-NPO-11932-1]	c 35 N74-23040	[NASA-CASE-NPO-13423-1]	c 33 N75-31329	[NASA-CASE-NPO-13567-1]	c 44 N76-29701
Scanning nozzle plating system		Symmetrical odd-modulus frequency divider		Hydrogen rich gas generator	
[NASA-CASE-NPO-11758-1]	c 31 N74-23065	[NASA-CASE-NPO-13426-1]	c 33 N75-31330	[NASA-CASE-NPO-13464-2]	c 44 N76-29704
Rock sampling		Stored charge transistor		Mycardium wall thickness transducer and measuring method	
[NASA-CASE-XNP-10007-1]	c 46 N74-23068	[NASA-CASE-NPO-11156-2]	c 33 N75-31331	[NASA-CASE-NPO-13644-1]	c 52 N76-29895
Rock sampling		Doped Josephson tunneling junction for use in a sensitive IR detector		Catheter tip force transducer for cardiovascular research	
[NASA-CASE-XNP-09755]	c 46 N74-23069	[NASA-CASE-NPO-13348-1]	c 33 N75-31332	[NASA-CASE-NPO-13643-1]	c 52 N76-29896
Miniature multichannel biotelemetry system		Acoustically controlled distributed feedback laser		Real time analysis of voiced sounds	
[NASA-CASE-NPO-13065-1]	c 52 N74-26625	[NASA-CASE-NPO-13175-1]	c 36 N75-31427	[NASA-CASE-NPO-13465-1]	c 32 N76-31372
Dispensing targets for ion beam particle generators		Inert gas metallic vapor laser		III-V photocathode with nitrogen doping for increased quantum efficiency	
[NASA-CASE-NPO-13112-1]	c 73 N74-26767	[NASA-CASE-NPO-13449-1]	c 36 N75-32441	[NASA-CASE-NPO-12134-1]	c 33 N76-31409
Optically detonated explosive device		Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions		High resolution Fourier	
[NASA-CASE-NPO-11743-1]	c 28 N74-27425	[NASA-CASE-NPO-12122-1]	c 24 N76-14203	interferometer-spectrophotopolarimeter	
Coherent receiver employing nonlinear coherence detection for carrier tracking		Helium refrigerator		[NASA-CASE-NPO-13604-1]	c 35 N76-31490
[NASA-CASE-NPO-11921-1]	c 32 N74-30523	[NASA-CASE-NPO-13435-1]	c 31 N76-14284	Reflected-wave maser	
Digital servo control of random sound test excitation		Nonlinear nonsingular feedback shift registers		[NASA-CASE-NPO-13490-1]	c 36 N76-31512
[NASA-CASE-NPO-11623-1]	c 71 N74-31148	[NASA-CASE-NPO-13451-1]	c 33 N76-14373	Method of making hollow elastomeric bodies	
Capacitance multiplier and filter synthesizing network		Strain gage mounting assembly		[NASA-CASE-NPO-13535-1]	c 37 N76-31524
[NASA-CASE-NPO-11948-1]	c 33 N74-32712	[NASA-CASE-NPO-13170-1]	c 35 N76-14430	Solar cell grid patterns	
Apparatus for forming drive belts		Thermostatically controlled non-tracking type solar energy concentrator		[NASA-CASE-NPO-13087-2]	c 44 N76-31666
[NASA-CASE-NPO-13205-1]	c 31 N74-32917	[NASA-CASE-NPO-13497-1]	c 44 N76-14602	Furlable antenna	
Tool for use in lifting pin supported objects		Multi-computer multiple data path hardware exchange system		[NASA-CASE-NPO-13553-1]	c 33 N76-32457
[NASA-CASE-NPO-13157-1]	c 37 N74-32918	[NASA-CASE-NPO-13422-1]	c 60 N76-14818	Annular arc accelerator shock tube	
Preparing oxidizer coated metal fuel particles		Cermet composition and method of fabrication		[NASA-CASE-NPO-13528-1]	c 09 N77-10071
[NASA-CASE-NPO-11975-1]	c 28 N74-33209	[NASA-CASE-NPO-13120-1]	c 27 N76-15311	Cryostat system for temperatures on the order of 2 deg K or less	
Geneva mechanism		Dichroic plate		[NASA-CASE-NPO-13459-1]	c 31 N77-10229
[NASA-CASE-NPO-13281-1]	c 37 N75-13266	[NASA-CASE-NPO-13506-1]	c 35 N76-15435	The dc-to-dc converters employing staggered-phase power switches with two-loop control	
Amino acid analysis		Utilization of oxygen difluoride for syntheses of fluoropolymers		[NASA-CASE-NPO-13512-1]	c 33 N77-10428
[NASA-CASE-NPO-12130-1]	c 25 N75-14844	[NASA-CASE-NPO-12061-1]	c 27 N76-16228	Ion and electron detector for use in an ICR spectrometer	
Method of producing a storage bulb for an atomic hydrogen maser		Magnetometer using superconducting rotating body		[NASA-CASE-NPO-13479-1]	c 35 N77-10492
[NASA-CASE-NPO-13050-1]	c 36 N75-15029	[NASA-CASE-NPO-13388-1]	c 35 N76-16390	Hydrogen-rich gas generator	
Combined pressure regulator and shutoff valve		Scan converting video tape recorder		[NASA-CASE-NPO-13560-1]	c 44 N77-10636
[NASA-CASE-NPO-13201-1]	c 37 N75-15050	[NASA-CASE-NPO-10166-2]	c 35 N76-16391	Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel	
Reduction of blood serum cholesterol		Hydrogen rich gas generator		[NASA-CASE-NPO-13545-1]	c 32 N77-12240
[NASA-CASE-NPO-12119-1]	c 52 N75-15270	[NASA-CASE-NPO-13342-1]	c 37 N76-16446	Computer interface system	
Simultaneous acquisition of tracking data from two stations		Automated system for identifying traces of organic chemical compounds in aqueous solutions		[NASA-CASE-NPO-13428-1]	c 60 N77-12721
[NASA-CASE-NPO-13292-1]	c 32 N75-15854	[NASA-CASE-NPO-13063-1]	c 25 N76-18245	High temperature oxidation resistant cermet compositions	
Shock absorbing mount for electrical components		Analog to digital converter		[NASA-CASE-NPO-13666-1]	c 27 N77-13217
[NASA-CASE-NPO-13253-1]	c 37 N75-18573	[NASA-CASE-NPO-13385-1]	c 33 N76-18345	Frequency discriminator and phase detector circuit	
System for generating timing and control signals		Sampler of gas borne particles		[NASA-CASE-NPO-11515-1]	c 33 N77-13315
[NASA-CASE-NPO-13125-1]	c 33 N75-19519	[NASA-CASE-NPO-13396-1]	c 35 N76-18401	Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump	
Motor run-up system		Stark-effect modulation of CO2 laser with NH2D		[NASA-CASE-NPO-13663-1]	c 35 N77-14406
[NASA-CASE-NPO-13374-1]	c 33 N75-19524	[NASA-CASE-NPO-11945-1]	c 36 N76-18427	Thermocouple installation	
Deep trap, laser activated image converting system		Diffused waveguiding capillary tube with distributed feedback for a gas laser		[NASA-CASE-NPO-13540-1]	c 35 N77-14409
[NASA-CASE-NPO-13131-1]	c 36 N75-19652	[NASA-CASE-NPO-13544-1]	c 36 N76-18428	Method and apparatus for background signal reduction in opto-acoustic absorption measurement	
Multitarget sequential sputtering apparatus		System for minimizing internal combustion engine pollution emission		[NASA-CASE-NPO-13683-1]	c 35 N77-14411
[NASA-CASE-NPO-13345-1]	c 37 N75-19684	[NASA-CASE-NPO-13402-1]	c 37 N76-18457	Nuclear thermionic converter	
Wide angle sun sensor		Hydrogen-bromine secondary battery		[NASA-CASE-NPO-13121-1]	c 73 N77-18891
[NASA-CASE-NPO-13327-1]	c 35 N75-23910	[NASA-CASE-NPO-13237-1]	c 44 N76-18641	Continuous plasma laser	
Material suspension within an acoustically excited resonant chamber		Hydrogen-rich gas generator		[NASA-CASE-XNP-04167-3]	c 36 N77-19416
[NASA-CASE-NPO-13263-1]	c 12 N75-24774	[NASA-CASE-NPO-13464-1]	c 44 N76-18642	Multiple rate digital command detection system with range clean-up capability	
Heat operated cryogenic electrical generator		Zinc-halide battery with molten electrolyte		[NASA-CASE-NPO-13753-1]	c 32 N77-20289
[NASA-CASE-NPO-13303-1]	c 20 N75-24837	[NASA-CASE-NPO-11961-1]	c 44 N76-18643	Charge storage diode modulators and demodulators	
System for interference signal nulling by polarization adjustment		Priority interrupt system		[NASA-CASE-NPO-10189-1]	c 33 N77-21314
[NASA-CASE-NPO-13140-1]	c 32 N75-24982	[NASA-CASE-NPO-13067-1]	c 60 N76-18800	Compact, high intensity arc lamp with internal magnetic field producing means	
Heat detection and compositions and devices therefor		Miniature muscle displacement transducer		[NASA-CASE-NPO-11510-1]	c 33 N77-21315
[NASA-CASE-NPO-10764-2]	c 35 N75-25122	[NASA-CASE-NPO-13519-1]	c 33 N76-19338	Depressurization of arc lamps	
Servo-controlled intravital microscope system		Zero torque gear head wrench		[NASA-CASE-NPO-10790-1]	c 33 N77-21316
[NASA-CASE-NPO-13214-1]	c 35 N75-25123	[NASA-CASE-NPO-13059-1]	c 37 N76-20480		
Ultrasonically bonded valve assembly		Method and apparatus for measurement of trap density and energy distribution in dielectric films			
[NASA-CASE-NPO-13360-1]	c 37 N75-25185	[NASA-CASE-NPO-13443-1]	c 76 N76-20994		
Vehicle locating system utilizing AM broadcasting station carriers		Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector			
[NASA-CASE-NPO-13217-1]	c 32 N75-26194	[NASA-CASE-NPO-13568-1]	c 32 N76-21365		
Asynchronous, multiplexing, single line transmission and recovery data system					
[NASA-CASE-NPO-13321-1]	c 32 N75-26195				

C-46

Chemical vapor deposition reactor			Method and apparatus for Doppler frequency modulation of radiation		Interferometer		
[NASA-CASE-NPO-13650-1]	c 25	N79-28253	[NASA-CASE-NPO-14524-1]	c 32	[NASA-CASE-NPO-14502-1]	c 74	N81-17888
High performance ammonium nitrate propellant			Method of mitigating titanium impurities effects in p-type silicon material for solar cells		Ion-exchange hollow fibers		
[NASA-CASE-NPO-14260-1]	c 28	N79-28342	[NASA-CASE-NPO-14635-1]	c 44	[NASA-CASE-NPO-13309-1]	c 25	N81-19244
Biocontamination and particulate detection system			Geological assessment probe		Apparatus for use in the production of ribbon-shaped crystals from a silicon melt		
[NASA-CASE-NPO-13953-1]	c 35	N79-28527	[NASA-CASE-NPO-14558-1]	c 46	[NASA-CASE-NPO-14297-1]	c 33	N81-19389
Solar cell with improved N-region contact and method of forming the same			Cooled echelle grating spectrometer		Elimination of current spikes in buck power converters		
[NASA-CASE-NPO-14205-1]	c 44	N79-31752	[NASA-CASE-NPO-14372-1]	c 35	[NASA-CASE-NPO-14505-1]	c 33	N81-19393
Solar cell module			Simultaneous muscle force and displacement transducer		Copper doped polycrystalline silicon solar cell		
[NASA-CASE-NPO-14467-1]	c 44	N79-31753	[NASA-CASE-NPO-14212-1]	c 52	[NASA-CASE-NPO-14670-1]	c 44	N81-19558
Multi-channel rotating optical interface for data transmission			Miniature cyclotron resonance ion source using small permanent magnet		System and method for character recognition		
[NASA-CASE-NPO-14066-1]	c 74	N79-34011	[NASA-CASE-NPO-14324-1]	c 72	[NASA-CASE-NPO-11337-1]	c 74	N81-19896
Start up system for hydrogen generator used with an internal combustion engine			Silicone containing solid propellant		X-ray position detector		
[NASA-CASE-NPO-13849-1]	c 28	N80-10374	[NASA-CASE-NPO-14477-1]	c 28	[NASA-CASE-NPO-12087-1]	c 74	N81-19898
Sodium storage and injection system			System for slicing silicon wafers		Controller for computer control of brushless dc motors		
[NASA-CASE-NPO-14384-1]	c 37	N80-10494	[NASA-CASE-NPO-14406-1]	c 37	[NASA-CASE-NPO-13970-1]	c 33	N81-20352
System for detecting substructure microfractures and method therefore			Induced junction solar cell and method of fabrication		Multifunctional transducer		
[NASA-CASE-NPO-14192-1]	c 39	N80-10507	[NASA-CASE-NPO-13786-1]	c 44	[NASA-CASE-NPO-14329-1]	c 52	N81-20703
Borehole geological assessment			Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains		Polymeric compositions and their method of manufacture		
[NASA-CASE-NPO-14231-1]	c 46	N80-10709	[NASA-CASE-NPO-14298-1]	c 76	[NASA-CASE-NPO-10424-1]	c 27	N81-24258
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control			Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width		Low current linearization of magnetic amplifier for dc transducer		
[NASA-CASE-NPO-14474-1]	c 26	N80-14229	[NASA-CASE-NPO-14295-1]	c 76	[NASA-CASE-NPO-14617-1]	c 33	N81-24338
Electromagnetic power absorber			Interferometric locating system		Stark effect spectrophone for continuous absorption spectra monitoring		
[NASA-CASE-NPO-13830-1]	c 32	N80-14281	[NASA-CASE-NPO-14173-1]	c 04	[NASA-CASE-NPO-15102-1]	c 25	N81-25159
Multiple anode arc lamp system			Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same		Multifrequency broadband polarized horn antenna		
[NASA-CASE-NPO-10857-1]	c 33	N80-14330	[NASA-CASE-NPO-13137-1]	c 27	[NASA-CASE-NPO-14588-1]	c 32	N81-25278
Method for analyzing radiation sensitivity of integrated circuits			Prepolymer dianhydrides		Hot gas engine with dual crankshafts		
[NASA-CASE-NPO-14350-1]	c 33	N80-14332	[NASA-CASE-NPO-13899-1]	c 27	[NASA-CASE-NPO-14221-1]	c 37	N81-25370
Apparatus for electrolytically tapered or contoured cavities			System for plotting subsoil structure and method therefor		Sandblasting nozzle		
[NASA-CASE-NXP-08835-1]	c 37	N80-14395	[NASA-CASE-NPO-14191-1]	c 31	[NASA-CASE-NPO-13823-1]	c 37	N81-25371
Method for forming a solar array strip			Support assembly for cryogenically coolable low-noise choke waveguide		Photomechanical transducer		
[NASA-CASE-NPO-13652-3]	c 44	N80-14474	[NASA-CASE-NPO-14253-1]	c 32	[NASA-CASE-NPO-14363-1]	c 39	N81-25400
Ozonation of cooling tower waters			Apparatus for measuring semiconductor device resistance		Underground mineral extraction		
[NASA-CASE-NPO-14340-1]	c 45	N80-14579	[NASA-CASE-NPO-14424-1]	c 33	[NASA-CASE-NPO-14140-1]	c 43	N81-26509
System for real-time crustal deformation monitoring			Stark cell optoacoustic detection of constituent gases in sample		CCD correlated quadruple sampling processor		
[NASA-CASE-NPO-14124-1]	c 46	N80-14603	[NASA-CASE-NPO-14143-1]	c 25	[NASA-CASE-NPO-14426-1]	c 33	N81-27396
Dialysis system			Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer		Terminal guidance sensor system		
[NASA-CASE-NPO-14101-1]	c 52	N80-14687	[NASA-CASE-NPO-14001-1]	c 27	[NASA-CASE-NPO-14521-1]	c 37	N81-27519
High resolution threshold photoelectron spectroscopy by electron attachment			Frequency translating phase conjugation circuit for active retrodirective antenna array		Medical diagnosis system and method with multispectral imaging		
[NASA-CASE-NPO-14078-1]	c 72	N80-14877	[NASA-CASE-NPO-14536-1]	c 32	[NASA-CASE-NPO-14402-1]	c 52	N81-27783
Strong thin membrane structure			Precise RF timing signal distribution to remote stations		High-speed multiplexing of keyboard data inputs		
[NASA-CASE-NPO-14021-2]	c 27	N80-16163	[NASA-CASE-NPO-14749-1]	c 32	[NASA-CASE-NPO-14554-1]	c 60	N81-27814
Antenna feed system for receiving circular polarization and transmitting linear polarization			Base drive for paralleled inverter systems		Baseband signal combiner for large aperture antenna array		
[NASA-CASE-NPO-14362-1]	c 32	N80-16261	[NASA-CASE-NPO-14163-1]	c 33	[NASA-CASE-NPO-14641-1]	c 32	N81-29308
Apparatus for endoscopic examination			Low cost cryostat		Schottky barrier solar cell		
[NASA-CASE-NPO-14092-1]	c 52	N80-16725	[NASA-CASE-NPO-14513-1]	c 35	[NASA-CASE-NPO-13689-2]	c 44	N81-29525
Method of producing silicon			Power control for hot gas engines		Interferometer		
[NASA-CASE-NPO-14382-1]	c 31	N80-18231	[NASA-CASE-NPO-14220-1]	c 37	[NASA-CASE-NPO-14448-1]	c 74	N81-29963
High-speed data link for moderate distances and noisy environments			Method and apparatus for fabricating improved solar cell modules		Coal desulfurization		
[NASA-CASE-NPO-14152-1]	c 32	N80-18252	[NASA-CASE-NPO-14416-1]	c 44	[NASA-CASE-NPO-14272-1]	c 25	N81-33246
Radio frequency arraying method for receivers			Viscoelastic cationic polymers containing the urethane linkage		Method and apparatus for producing concentric hollow spheres		
[NASA-CASE-NPO-14328-1]	c 32	N80-18253	[NASA-CASE-NPO-10830-1]	c 27	[NASA-CASE-NPO-14596-1]	c 31	N81-33319
High power RF coaxial switch			Recovery of aluminum from composite propellants		Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress		
[NASA-CASE-NPO-14229-1]	c 33	N80-18285	[NASA-CASE-NPO-14110-1]	c 28	[NASA-CASE-NPO-14316-1]	c 33	N81-33404
Microwave power transmission beam safety system			Continuous coal processing method		PN lock indicator for dithered PN code tracking loop		
[NASA-CASE-NPO-14224-1]	c 33	N80-18287	[NASA-CASE-NPO-13758-2]	c 31	[NASA-CASE-NPO-14435-1]	c 33	N81-33405
Viscosity measuring instrument			Method and apparatus for quadriphase-shift-key and linear phase modulation		Optical gyroscope system		
[NASA-CASE-NPO-14501-1]	c 35	N80-18357	[NASA-CASE-NPO-14444-1]	c 33	[NASA-CASE-NPO-14258-1]	c 35	N81-33448
Frequency-scanning particle size spectrometer			Speed control device for a heavy duty shaft		Head for high speed spinner having a vacuum chuck		
[NASA-CASE-NPO-13606-2]	c 35	N80-18364	[NASA-CASE-NPO-14170-1]	c 37	[NASA-CASE-NPO-15227-1]	c 37	N81-33482
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures			Redundant operation of counter modules		Fluidized bed coal combustion reactor		
[NASA-CASE-NPO-14254-1]	c 36	N80-18372	[NASA-CASE-NPO-14162-1]	c 60	[NASA-CASE-NPO-14273-1]	c 25	N82-11144
Method of fabricating a photovoltaic module of a substantially transparent construction			Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith		Scriber for silicon wafers		
[NASA-CASE-NPO-14303-1]	c 44	N80-18550	[NASA-CASE-NPO-13530-1]	c 25	[NASA-CASE-NPO-15539-1]	c 37	N82-11469
Driver for solar cell I-V characteristic plots			Molten salt pyrolysis of latex		Sewage sludge additive		
[NASA-CASE-NPO-14096-1]	c 44	N80-18551	[NASA-CASE-NPO-14315-1]	c 27	[NASA-CASE-NPO-13877-1]	c 45	N82-11634
Method and means for helium/hydrogen ratio measurement by alpha scattering			Phase-angle controller for Stirling engines		Real-time multiple-look synthetic aperture radar processor for spacecraft applications		
[NASA-CASE-NPO-14079-1]	c 25	N80-20334	[NASA-CASE-NPO-14388-1]	c 37	[NASA-CASE-NPO-14054-1]	c 32	N82-12297
Satellite personal communications system			Solar energy receiver for a Stirling engine		Microwave limb sounder		
[NASA-CASE-NPO-14480-1]	c 32	N80-20448	[NASA-CASE-NPO-14619-1]	c 44	[NASA-CASE-NPO-14544-1]	c 46	N82-12685
Velocity servo for continuous scan Fourier interference spectrometer			System for forming a quadriphased image comprising angularly related fields of view of a three dimensional object		Faraday rotation measurement method and apparatus		
[NASA-CASE-NPO-14093-1]	c 35	N80-20563	[NASA-CASE-NPO-14219-1]	c 74	[NASA-CASE-NPO-14839-1]	c 35	N82-15381
Portable heatable container			Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect		Solar heated fluidized bed gasification system		
[NASA-CASE-NPO-14237-1]	c 44	N80-20808	[NASA-CASE-NPO-14657-1]	c 74	[NASA-CASE-NPO-15071-1]	c 44	N82-16475
Process for the leaching of AP from propellant					Method for shaping and aiming narrow beams		
[NASA-CASE-NPO-14109-1]	c 28	N80-23471			[NASA-CASE-NPO-14632-1]	c 32	N82-18443
Dual band combiner for horn antenna					Fiber optic transmission line stabilization apparatus and method		
[NASA-CASE-NPO-14519-1]	c 32	N80-23524			[NASA-CASE-NPO-15036-1]	c 74	N82-19029
Passive intrusion detection system					Suspension system for a wheel rolling on a flat track		
[NASA-CASE-NPO-13804-1]	c 33	N80-23559			[NASA-CASE-NPO-14395-1]	c 37	N82-21587
Quartz ball valve					Crude oil desulfurization		
[NASA-CASE-NPO-14473-1]	c 37	N80-23654			[NASA-CASE-NPO-14542-1]	c 25	N82-23282
					Echo tracker/range finder for radars and sonars		
					[NASA-CASE-NPO-14361-1]	c 32	N82-23376
					Constant magnification optical tracking system		
					[NASA-CASE-NPO-14813-1]	c 74	N82-24072

Pulse switching for high energy lasers [NASA-CASE-NPO-14556-1]	c 33	N82-24418	Distributed multiport memory architecture [NASA-CASE-NPO-15342-1]	c 60	N83-32342	Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter [NASA-CASE-NPO-15519-1]	c 32	N84-34651
Hermetic seal for a shaft [NASA-CASE-NPO-15115-1]	c 37	N82-24493	Acoustic system for material transport [NASA-CASE-NPO-15453-1]	c 71	N83-32515	Correlation spectrometer having high resolution and multiplexing capability [NASA-CASE-NPO-15558-1]	c 35	N84-34705
Instrumentation for sensing moisture content of material using a transient thermal pulse [NASA-CASE-NPO-15494-1]	c 35	N82-25484	System for controlled acoustic rotation of objects [NASA-CASE-NPO-15522-1]	c 71	N83-32516	Saltless solar pond [NASA-CASE-NPO-15808-1]	c 44	N84-34792
Automotive absorption air conditioner utilizing solar and motor waste heat [NASA-CASE-NPO-15183-1]	c 44	N82-26776	Mixed polyvalent-monovalent metal coating for carbon-graphite fibers [NASA-CASE-NPO-14987-1]	c 24	N83-33950	Epitaxial thinning process [NASA-CASE-NPO-15786-1]	c 76	N84-35112
Efficiency of silicon solar cells containing chromium [NASA-CASE-NPO-15179-1]	c 44	N82-26777	Antenna grout replacement system [NASA-CASE-NPO-15202-1]	c 27	N83-34043	Process and apparatus for growing a crystal ribbon [NASA-CASE-NPO-15629-1]	c 76	N84-35113
Acoustic levitation methods and apparatus [NASA-CASE-NPO-15562-1]	c 71	N82-27086	Sphere forming method and apparatus [NASA-CASE-NPO-15070-1]	c 31	N83-35176	Multicomputer communication system [NASA-CASE-NPO-15433-1]	c 32	N85-21428
Thermochemical generation of hydrogen [NASA-CASE-NPO-15015-1]	c 25	N82-28368	Resonant isolator for maser amplifier [NASA-CASE-NPO-15201-1]	c 36	N83-35350	Hollow cathode apparatus [NASA-CASE-NPO-15560-1]	c 33	N85-21491
Method of forming frozen spheres in a force-free drop tower [NASA-CASE-NPO-14845-1]	c 27	N82-28442	Acoustic bubble removal method [NASA-CASE-NPO-15334-1]	c 71	N83-35781	Method and apparatus for self-calibration and phasing of array antenna [NASA-CASE-NPO-15920-1]	c 33	N85-21493
High power metallic halide laser [NASA-CASE-NPO-14782-1]	c 36	N82-28616	Method of increasing minority carrier lifetime in silicon web or the like [NASA-CASE-NPO-15530-1]	c 76	N83-35888	State-of-charge coulometer [NASA-CASE-NPO-15759-1]	c 35	N85-21596
Method of Fabricating Schottky Barrier solar cell [NASA-CASE-NPO-13689-4]	c 44	N82-28780	Acoustic suspension system [NASA-CASE-NPO-15435-1]	c 71	N83-36846	Carbon granule probe microphone for leak detection [NASA-CASE-NPO-16027-1]	c 35	N85-21597
Coal desulfurization by aqueous chlorination [NASA-CASE-NPO-14902-1]	c 25	N82-29371	Optical fiber tactile sensor [NASA-CASE-NPO-15375-1]	c 74	N84-11921	Portable remote laser sensor for methane leak detection [NASA-CASE-NPO-15790-1]	c 36	N85-21631
Control means for a solid state crossbar switch [NASA-CASE-NPO-15066-1]	c 33	N82-29538	Photoelectrochemical electrodes [NASA-CASE-NPO-15458-1]	c 25	N84-12262	Ingot slicing machine and method [NASA-CASE-NPO-15483-1]	c 37	N85-21650
Discriminator aided phase lock acquisition for suppressed carrier signals [NASA-CASE-NPO-14311-1]	c 33	N82-29539	Method and apparatus for minimizing convection during crystal growth from solution [NASA-CASE-NPO-15811-1]	c 76	N84-12968	Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials [NASA-CASE-NPO-15851-1]	c 37	N85-21652
Coherently pulsed laser source [NASA-CASE-NPO-15111-1]	c 36	N82-29589	Pressure letdown method and device for coal conversion systems [NASA-CASE-NPO-15100-1]	c 44	N84-14583	Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver [NASA-CASE-NPO-15651-1]	c 43	N85-21723
Solid electrolyte cell [NASA-CASE-NPO-15269-1]	c 44	N82-29710	Supercritical multicomponent solvent coal extraction [NASA-CASE-NPO-15767-1]	c 23	N84-16255	Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events [NASA-CASE-NPO-15430-1]	c 46	N85-21846
Electromigration process for the purification of molten silicon during crystal growth [NASA-CASE-NPO-14831-1]	c 76	N82-30105	Electrodes for solid state devices [NASA-CASE-NPO-15161-1]	c 33	N84-16456	Automatic multi-banking of memory for microprocessors [NASA-CASE-NPO-15295-1]	c 60	N85-21992
Hyperthermia heating apparatus [NASA-CASE-NPO-14549-2]	c 52	N82-33996	Contactless pellet fabrication [NASA-CASE-NPO-15592-1]	c 71	N84-16940	Acoustic agglomeration methods and apparatus [NASA-CASE-NPO-15466-1]	c 71	N85-22104
CAT altitude avoidance system [NASA-CASE-NPO-15351-1]	c 06	N83-10040	Ion beam accelerator system [NASA-CASE-NPO-15547-1]	c 72	N84-16959	High temperature acoustic levitator [NASA-CASE-NPO-16022-1]	c 71	N85-22105
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser [NASA-CASE-NPO-15021-1]	c 36	N83-10417	Apparatus and method for destructive removal of particles contained in flowing fluid [NASA-CASE-NPO-15426-1]	c 35	N84-17555	Focal plane array optical proximity sensor [NASA-CASE-NPO-15155-1]	c 74	N85-22139
Thermal reactor [NASA-CASE-NPO-14369-1]	c 44	N83-10501	Supercritical solvent coal extraction [NASA-CASE-NPO-15210-1]	c 25	N84-22709	Optical system [NASA-CASE-NPO-15801-1]	c 74	N85-23396
Enhancement of in vitro guayule propagation [NASA-CASE-NPO-15213-1]	c 51	N83-17045	Absorbable-susceptor joining of ceramic surfaces [NASA-CASE-NPO-15640-1]	c 27	N84-22748	Corrosion resistant coating [NASA-CASE-NPO-15928-1]	c 26	N85-29005
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar [NASA-CASE-NPO-14998-1]	c 32	N83-18975	Radiative cooler [NASA-CASE-NPO-15465-1]	c 34	N84-22903	Stabilized unsaturated polyesters [NASA-CASE-NPO-16103-1]	c 27	N85-29043
Synchronized voltage contrast display analysis system [NASA-CASE-NPO-14567-1]	c 33	N83-18996	Method and apparatus for precision control of radiometer [NASA-CASE-NPO-15398-1]	c 35	N84-22931	Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer [NASA-CASE-NPO-16257-1]	c 31	N85-29082
Broadband optical radiation detector [US-PATENT-4,262,198]	c 74	N83-19597	Spectrophone stabilized laser with line center offset frequency control [NASA-CASE-NPO-15516-1]	c 36	N84-22943	Retinally stabilized differential resolution television display [NASA-CASE-NPO-15432-1]	c 32	N85-29117
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent [NASA-CASE-NPO-14857-1]	c 27	N83-19900	Oil shale extraction using super-critical extraction [NASA-CASE-NPO-15656-1]	c 43	N84-23012	Beam forming network [NASA-CASE-NPO-15743-1]	c 32	N85-29118
Thin wire pointing method [NASA-CASE-NPO-15789-1]	c 31	N83-19947	Wind and solar powered turbine [NASA-CASE-NPO-15496-1]	c 44	N84-23018	Closed loop electrostatic levitation system [NASA-CASE-NPO-15553-1]	c 33	N85-29142
Clutter free synthetic aperture radar correlator [NASA-CASE-NPO-14035-1]	c 32	N83-19968	Acoustic rotation control [NASA-CASE-NPO-15689-1]	c 71	N84-23233	Maser cavity servo-tuning system [NASA-CASE-NPO-15890-1-CU]	c 33	N85-29143
Controlled in situ etch-back [NASA-CASE-NPO-15625-1]	c 76	N83-20789	Programmable scan/read circuitry for charge coupled device imaging detectors [NASA-CASE-NPO-15345-1]	c 74	N84-23247	Jet pump-drive system for heat removal [NASA-CASE-NPO-16494-1-CU]	c 34	N85-29182
Stabilized lanthanum sulphur compounds [NASA-CASE-NPO-16135-1]	c 25	N83-24572	Laser pulse detection method and apparatus [NASA-CASE-NPO-16030-1]	c 36	N84-25037	Trace water sensor [NASA-CASE-NPO-15722-1]	c 35	N85-29212
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases [NASA-CASE-NPO-15220-1]	c 45	N83-25217	Low-frequency radio navigation system [NASA-CASE-NPO-15264-1]	c 04	N84-27713	Digital control of diode laser for atmospheric spectroscopy [NASA-CASE-NPO-16000-1]	c 36	N85-29264
System and method for moving a probe to follow movements of tissue [NASA-CASE-NPO-15197-1]	c 52	N83-25346	Synthetic aperture radar target simulator [NASA-CASE-NPO-15024-1]	c 32	N84-27951	Method for driving two-phase turbines with enhanced efficiency [NASA-CASE-NPO-15037-2]	c 37	N85-29282
Waveguide cooling system [NASA-CASE-NPO-15401-1]	c 32	N83-27085	Ion mass spectrometer [NASA-CASE-NPO-15423-1]	c 35	N84-28016	Gravity enhanced acoustic levitation method and apparatus [NASA-CASE-NPO-16147-1-CU]	c 71	N85-29693
Electronic system for high power load control [NASA-CASE-NPO-15358-1]	c 33	N83-27126	Shaft transducer having dc output proportional to angular velocity [NASA-CASE-NPO-15706-1]	c 35	N84-28017	Optical fiber coupling method and apparatus [NASA-CASE-NPO-15464-1]	c 74	N85-29749
Particle analyzing method and apparatus [NASA-CASE-NPO-15292-1]	c 35	N83-27184	Centrifugal-reciprocating compressor [NASA-CASE-NPO-14597-2]	c 37	N84-28081	Method for growth of crystals by pressure reduction of supercritical or subcritical solution [NASA-CASE-NPO-15772-1]	c 76	N85-29800
Hydrodesulfurization of chlorinated coal [NASA-CASE-NPO-15304-1]	c 25	N83-31743	Solar energy modulator [NASA-CASE-NPO-15388-1]	c 44	N84-28203	Split-cross-bridge resistor for testing for proper fabrication of integrated circuits [NASA-CASE-NPO-16021-1]	c 33	N85-30187
Method and apparatus for producing gas-filled hollow spheres [NASA-CASE-NPO-14596-3]	c 31	N83-31896	Solar concentrator protective system [NASA-CASE-NPO-15662-1]	c 44	N84-28204	Arrangement for damping the resonance in a laser diode [NASA-CASE-NPO-15980-1]	c 36	N85-30305
Cycling Joule Thomson refrigerator [NASA-CASE-NPO-15251-1]	c 31	N83-31897	Integrating IR detector imaging systems [NASA-CASE-NPO-15805-1]	c 74	N84-28590	Stable density stratification solar pond [NASA-CASE-NPO-15419-2]	c 44	N85-30474
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths [NASA-CASE-NPO-14525-2]	c 32	N83-31918	Glass heating panels and method for preparing the same from architectural reflective glass [NASA-CASE-NPO-15753-1]	c 27	N84-33589	Increased voltage photovoltaic cell [NASA-CASE-NPO-16155-1]	c 44	N85-30475
Method and device for detection of a substance [NASA-CASE-NPO-14940-1]	c 33	N83-31954	Portable reflectance spectrometer [NASA-CASE-NPO-13556-1]	c 35	N84-33766	Acoustic particle separation [NASA-CASE-NPO-15559-1]	c 71	N85-30765
System for monitoring physical characteristics of fluids [NASA-CASE-NPO-15400-1]	c 34	N83-31993	Means and method for calibrating a photon detector utilizing electron-photon coincidence [NASA-CASE-NPO-15644-1]	c 35	N84-33767			
Cloud cover sensor [NASA-CASE-NPO-14936-1]	c 47	N83-32232	Phase sensitive guidance sensor for wire-following vehicles [NASA-CASE-NPO-15341-1]	c 35	N84-33769			
			System for indicating fuel-efficient aircraft altitude [NASA-CASE-NPO-15351-2]	c 06	N84-34443			

Low defect, high purity crystalline layers grown by selective deposition			
[NASA-CASE-NPO-15813-1]	c 76	N85-30922	
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current			
[NASA-CASE-NPO-15704-1]	c 32	N85-34327	
Method and apparatus for transfer function simulator for testing complex systems			
[NASA-CASE-NPO-15696-1]	c 33	N85-34333	
Instrumentation for sensing moisture content of material using a transient thermal pulse			
[NAS 1.71:NPO-15494-2]	c 35	N85-34373	
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam			
[NASA-CASE-NPO-15865-1]	c 74	N85-34629	
Shuttle car loading system			
[NASA-CASE-NPO-15949-1]	c 85	N85-34722	
Production of butanol by fermentation in the presence of cocultures of clostridium			
[NASA-CASE-NPO-16203-1]	c 23	N85-35227	
Fluidized bed desulfurization			
[NASA-CASE-NPO-15924-1]	c 25	N85-35253	
Laser activated MTOS microwave device			
[NASA-CASE-NPO-16112-1]	c 33	N86-19516	
Memory metal actuator			
[NASA-CASE-NPO-15960-1]	c 37	N86-19604	
Joint for deployable structures			
[NASA-CASE-NPO-16038-1]	c 37	N86-19605	
Method and apparatus for contour mapping using synthetic aperture radar			
[NASA-CASE-NPO-15939-1]	c 43	N86-19711	
Brushless DC motor control system responsive to control signals generated by a computer or the like			
[NASA-CASE-NPO-16420-1]	c 33	N86-20681	
Vibrating-chamber levitation systems			
[NASA-CASE-NPO-16142-1-CU]	c 35	N86-20752	
Self-locking double retention redundant full pin release			
[NASA-CASE-NPO-16233-1]	c 37	N86-20801	
Neighborhood comparison operator			
[NASA-CASE-NPO-16464-1-CU]	c 60	N86-24224	
Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions			
[NASA-CASE-NPO-16584-1-CU]	c 76	N86-25269	
Solar heated oil shale pyrolysis process			
[NASA-CASE-NPO-16392-1]	c 25	N86-25428	
Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis			
[NASA-CASE-NPO-16271-1]	c 35	N86-25753	
High dynamic global positioning system receiver			
[NASA-CASE-NPO-16171-1-CU]	c 04	N86-27270	
Protective telescoping shield for solar concentrator			
[NASA-CASE-NPO-16236-1]	c 44	N86-27706	
Method of making macrocrystalline or single crystal semiconductor material			
[NASA-CASE-NPO-15904-1]	c 76	N86-28760	
Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling			
[NASA-CASE-NPO-15658-1]	c 26	N86-32551	
Fluidic angular velocity sensor			
[NASA-CASE-NPO-16479-1-CU]	c 35	N86-32695	
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector			
[NASA-CASE-NPO-16372-1]	c 72	N86-33127	
Compensation for primary reflector wavefront error			
[NASA-CASE-NPO-16869-1-CU]	c 74	N86-33138	
Cross-contact chain			
[NASA-CASE-NPO-16784-1]	c 33	N87-10231	
FET charge sensor and voltage probe			
[NASA-CASE-NPO-16045-1]	c 76	N87-13313	
Method of examining microcircuit patterns			
[NASA-CASE-NPO-16299-1]	c 33	N87-14594	
Active hold-down for heat treating			
[NASA-CASE-NPO-16892-1-CU]	c 37	N87-14704	
Ground plane interference elimination by passive element			
[NASA-CASE-NPO-16632-1-CU]	c 32	N87-15390	
Large TV display system			
[NASA-CASE-NPO-16932-1-CU]	c 33	N87-15413	
Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask			
[NASA-CASE-NPO-15813-2]	c 76	N87-15882	
Tank tread assemblies with track-linking mechanism			
[NASA-CASE-NPO-16321-1-CU]	c 37	N87-17034	
High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells			
[NASA-CASE-NPO-16526-1-CU]	c 44	N87-17399	
Ten degree Kelvin hydride refrigerator			
[NASA-CASE-NPO-16393-1-CU]	c 31	N87-21159	
Synchronization tracking in pulse position modulation receiver			
[NASA-CASE-NPO-16256-1]	c 32	N87-21207	
Low noise lead screw positioner			
[NASA-CASE-NPO-15617-1]	c 35	N87-21304	
Method for forming hermetic seals			
[NASA-CASE-NPO-16423-1-CU]	c 37	N87-21334	
Reed-Solomon decoder			
[NASA-CASE-NPO-15982-1]	c 60	N87-21591	
Generation of intense negative ion beams			
[NASA-CASE-NPO-16061-1-CU]	c 72	N87-21660	
Variable energy, high flux, ground-state atomic oxygen source			
[NASA-CASE-NPO-16640-1-CU]	c 72	N87-21661	
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor			
[NASA-CASE-NPO-16337-1-CU]	c 33	N87-22894	
Water-absorbing capacitor system for measuring relative humidity			
[NASA-CASE-NPO-16544-1-CU]	c 35	N87-22953	
Closed loop fiber optic rotation sensor			
[NASA-CASE-NPO-16558-1-CU]	c 74	N87-23259	
Total immersion crystal growth			
[NASA-CASE-NPO-15800-2]	c 76	N87-23286	
Floating emitter solar cell			
[NASA-CASE-NPO-16467-1-CU]	c 33	N87-23879	
Means for phase locking the outputs of a surface emitting laser diode array			
[NASA-CASE-NPO-16542-1-CU]	c 36	N87-23960	
Multiplex electric discharge gas laser system			
[NASA-CASE-NPO-16433-1]	c 36	N87-23961	
Rotary stepping device with memory metal actuator			
[NASA-CASE-NPO-15482-1]	c 37	N87-23970	
Sample levitation and melt in microgravity			
[NASA-CASE-NPO-17022-1-CU]	c 29	N87-25489	
Antimultipath communication by injecting tone into null in signal spectrum			
[NASA-CASE-NPO-16414-1-CU]	c 32	N87-25511	
Method and means for generation of tunable laser sidebands in the far-infrared region			
[NASA-CASE-NPO-16497-1-CU]	c 36	N87-25567	
Hybrid analog-digital associative neural network			
[NASA-CASE-NPO-17058-1-CU]	c 62	N87-25803	
Method and apparatus for enhancing laser absorption sensitivity			
[NASA-CASE-NPO-16567-1-CU]	c 36	N87-28006	
Coaxial cable connector			
[NASA-CASE-NPO-16764-1-CU]	c 33	N88-14270	
Tailorable infrared sensing device with strain layer superlattice structure			
[NASA-CASE-NPO-16607-1-CU]	c 76	N88-14836	
Method of evaporation			
[NASA-CASE-NPO-15609-2]	c 25	N88-23846	
Krypton based adsorption type cryogenic refrigerator			
[NASA-CASE-NPO-17334-1-CU]	c 31	N88-23917	
Cryogenic regenerator including saran-carbon heat conduction matrix			
[NASA-CASE-NPO-17291-1-CU]	c 34	N88-23946	
Real time pipelined system for forming the sum of products in the processing of video data			
[NASA-CASE-NPO-16462-1-CU]	c 60	N88-24169	
Single mode levitation and translation			
[NASA-CASE-NPO-16675-1-CU]	c 71	N88-24241	
Method of producing high T(subc) superconducting NBN films			
[NASA-CASE-NPO-16681-1-CU]	c 76	N88-24543	
Isotope separation using tuned laser and electron beam			
[NASA-CASE-NPO-16907-1-CU]	c 25	N88-24732	
Magnetically switched power supply system for lasers			
[NASA-CASE-NPO-16402-2]	c 33	N88-24862	
Timing control system			
[NASA-CASE-NPO-16882-1-CU]	c 33	N88-24863	
Noncontact temperature pattern measuring device			
[NASA-CASE-NPO-17024-1-CU]	c 35	N88-24943	
Real-time optical multiple object recognition and tracking system and method			
[NASA-CASE-NPO-17139-1-CU]	c 74	N88-25301	
Low-loss, high-isolation, fiber-optic isolator			
[NASA-CASE-NPO-17207-1-CU]	c 74	N88-25304	
Real-time image difference detection using a polarization rotation spatial light modulator			
[NASA-CASE-NPO-17144-1-CU]	c 74	N88-25305	
Data volume reduction for imaging radar polarimetry			
[NASA-CASE-NPO-17184-1-CU]	c 32	N88-26541	
Low noise cryogenic dielectric resonator oscillator			
[NASA-CASE-NPO-17157-1-CU]	c 33	N88-26596	
Method for Veterbi decoding of large constraint length convolutional codes			
[NASA-CASE-NPO-17310-1-CU]	c 17	N88-28946	
Digital phase-lock loop having an estimator and predictor of error			
[NASA-CASE-NPO-17196-1-CU]	c 32	N88-29076	
Power supply conditioning circuit			
[NASA-CASE-NPO-17233-1-CU]	c 33	N88-29095	
Thermocouple for heating and cooling of memory metal actuators			
[NASA-CASE-NPO-17068-1-CU]	c 35	N88-29151	
Nanosequencer digital logic controller			
[NASA-CASE-NPO-16116-2]	c 60	N88-29310	
Self-actuating heat switches for redundant refrigeration systems			
[NASA-CASE-NPO-17085-1-CU]	c 31	N89-12785	
Stabilization and oscillation of an acoustically levitated object			
[NASA-CASE-NPO-16896-1-CU]	c 71	N89-13236	
Passively activated prehensile digit for a robotic end effector			
[NASA-CASE-NPO-16766-1-CU]	c 37	N89-13785	
Dynamic range compression/expansion of light beams by photorefractive crystals			
[NASA-CASE-NPO-17140-1-CU]	c 74	N89-14077	
Remotely controllable real-time optical processor			
[NASA-CASE-NPO-16750-1-CU]	c 74	N89-14078	
Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition			
[NASA-CASE-NPO-17399-1-CU]	c 76	N89-14120	
Joule Thomson refrigerator			
[NASA-CASE-NPO-17143-1-CU]	c 31	N89-14351	
Controlled sample orientation and rotation in an acoustic levitator			
[NASA-CASE-NPO-17086-1-CU]	c 35	N89-14422	
Programmable pipelined image processor			
[NASA-CASE-NPO-16461-1-CU]	c 60	N89-26400	
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen			
[NASA-CASE-NPO-17249-1-CU]	c 32	N89-28676	
Digital carrier demodulator employing components working beyond normal limits			
[NASA-CASE-NPO-17628-1-CU]	c 32	N89-28684	
Systolic VLSI array for implementing the Kalman filter algorithm			
[NASA-CASE-NPO-17108-1-CU]	c 33	N89-28713	
Reversal electron attachment ionizer for detection of trace species			
[NASA-CASE-NPO-17596-1-CU]	c 35	N89-28795	
Robust high-performance control for robotic manipulators			
[NASA-CASE-NPO-17785-1-CU]	c 37	N89-28846	
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry			
[NASA-CASE-NPO-16789-1-CU]	c 72	N89-29169	
Two stage sorption type cryogenic refrigerator including heat regeneration system			
[NASA-CASE-NPO-17630-1-CU]	c 31	N89-29577	
Integrated circuit reliability testing			
[NASA-CASE-NPO-17393-1-CU]	c 33	N89-29679	
Low power consumption current transducer			
[NASA-CASE-NPO-16888-1-CU]	c 33	N89-29681	
Distributed proximity sensor system			
[NASA-CASE-NPO-17275-1-CU]	c 37	N89-29750	
Predictive aging of polymers			
[NASA-CASE-NPO-17524-1-CU]	c 27	N90-10261	
Acoustic controlled rotation and orientation			
[NASA-CASE-NPO-16995-1-CU]	c 71	N90-12289	
Stripline feed for a microstrip array of patch elements with teardrop shaped probes			
[NASA-CASE-NPO-17548-1-CU]	c 32	N90-16104	
Analog hardware for delta-backpropagation neural networks			
[NASA-CASE-NPO-17564-1-CU]	c 32	N90-16974	
Apparatus for using a time interval counter to measure frequency stability			
[NASA-CASE-NPO-17325-1-CU]	c 32	N90-17005	
Solid state electrical switch employing materials with reversible phase transistors			
[NASA-CASE-NPO-17621-1-CU]	c 33	N90-17010	
Ballast system for maintaining constant pressure in a glove box			
[NASA-CASE-NPO-17786-1-CU]	c 35	N90-17104	
Tailorable infrared sensing device with strain layer superlattice structure			
[NASA-CASE-NPO-16617-2-CU]	c 35	N90-17118	
Noncontact temperature pattern measuring device			
[NASA-CASE-NPO-17824-1-CU]	c 36	N90-17132	
Articulated suspension system			
[NASA-CASE-NPO-17354-1-CU]	c 37	N90-17153	
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure			
[NASA-CASE-NPO-17812-1-CU]	c 76	N90-17456	
High density tape casting system			
[NASA-CASE-NPO-16901-1-CU]	c 31	N90-19425	
Local area network with fault-checking, priorities, and redundant backup			
[NASA-CASE-NPO-16949-1-CU]	c 62	N90-19776	
Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency			
[NASA-CASE-NPO-17259-1-CU]	c 76	N90-19884	
Dual cathode system for electron beam instruments			
[NASA-CASE-NPO-16878-1-CU]	c 35	N90-20351	
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver			
[NASA-CASE-NPO-17280-1-CU]	c 17	N90-21061	

Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215

Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525

Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527

Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951

Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769

Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700

Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583

Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384

Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518

High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685

New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880

Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016

VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N90-27040

Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070

Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239

Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268

Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385

Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488

Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517

Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518

Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594

Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595

Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621

Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622

Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658

Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724

Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767

Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N91-13888

Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998

Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321

High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489

Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523

Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536

Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538

Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551

Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N91-14587

Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588

Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616

Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772

Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807

Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808

Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423

Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512

Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528

Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N91-15898

Torque sensor having a spoked sensor element support structure
[NASA-CASE-NPO-17461-1-CU] c 35 N91-17350

Cladding for transverse-pumped solid-state laser
[NASA-CASE-NPO-17355-1-CU] c 36 N91-17360

Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N91-21434

Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544

System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621

Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N91-23662

Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N91-23783

Real time pre-detection dynamic range compression
[NASA-CASE-NPO-18098-1-CU] c 74 N91-23890

Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N91-25316

Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318

Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380

Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693

High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841

Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918

Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385

Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-27439

Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478

Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N91-27957

Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014

Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236

A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528

Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810

Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885

Method and apparatus for producing microshells
[NASA-CASE-NPO-16635-1-CU] c 31 N91-32240

Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489

Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N91-32509

A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510

Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805

Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852

Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N91-32923

Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924

Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N91-32925

Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N91-32926

Regenerative Cu/La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073

Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-10125

Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126

Formation of self-aligned guard rings for monolithic Schottky-barrier diode arrays
[NASA-CASE-NPO-17734-1-CU] c 33 N92-10146

Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N92-10609

Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N92-10681

Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438

Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203

Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N92-15620

Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121

Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196

Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457

All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808

Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809

Three-stage sorption type cryogenic refrigeration system and method employing heat regeneration
[NASA-CASE-NPO-18366-1-CU] c 31 N92-17674

Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-17675

Multiplexed-grating surface-emitting lasers
[NASA-CASE-NPO-17763-1-CU] c 36 N92-17862

Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864

Method for non-destructive estimation of waveguide directional coupler dimensions
[NASA-CASE-NPO-18454-1-CU] c 33 N92-17865

Neural-network dedicated processor for solving competitive assignment problems
[NASA-CASE-NPO-17781-1-CU] c 60 N92-17884

- Wide field strip-imaging optical system
[NASA-CASE-NPO-18146-1-CU] c 74 N92-17892
- High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N92-17895
- Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899
- Transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N92-17907
- Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561
- Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499
- Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712
- Adjustable steam producing flexible orifice independent of fluid pressure
[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724
- Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N92-22033
- Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N92-22034
- Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N92-22035
- Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036
- Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-2-CU] c 76 N92-22040
- Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-3-CU] c 76 N92-22041
- Electrorepulsive actuator
[NASA-CASE-NPO-17684-1-CU] c 33 N92-22042
- National Aeronautics and Space Administration.**
Wallops Flight Center, Wallops Island, VA.
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
- Thin film strain transducer
[NASA-CASE-WLP-10055-2] c 35 N85-21598
- National Aeronautics and Space Administration.**
Western Operations Office, Santa Monica, CA.
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
- National Bureau of Standards, Boulder, CO.**
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
- National Oceanic and Atmospheric Administration, Boulder, CO.**
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
- National Research Corp., Cambridge, MA.**
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
- Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391
- Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
- Ultrahigh vacuum gauge having two collector electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324
- Rock sampling
[NASA-CASE-XNP-10007-1] c 46 N74-23068
- Rock sampling
[NASA-CASE-XNP-09755] c 46 N74-23069
- National Science Foundation, Washington, DC.**
Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
- Nevada Univ. System, Reno.**
Constant-output atomizer
[NASA-CASE-MFS-25631-1] c 34 N84-12406
- New England Medical Center Hospitals, Boston, MA.**
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
- North American Aviation, Inc., Canoga Park, CA.**
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
- Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
- Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173
- North American Aviation, Inc., Downey, CA.**
Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
- Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
- High pressure air valve Patent
[NASA-CASE-MS-11010] c 15 N71-19485
- Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441
- Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
- Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- North American Aviation, Inc., El Segundo, CA.**
Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
- Expanding center probe and drogue Patent
[NASA-CASE-XMS-03613] c 31 N71-16346
- Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
- High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
- Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
- Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
- Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
- Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
- Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
- Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
- Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
- Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929
- Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
- Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
- Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
- North American Aviation, Inc., Los Angeles, CA.**
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202
- North American Aviation, Inc., Torrance, CA.**
Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
- North American Aviation, Inc., Woodland Hills, CA.**
Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469
- North American Philips Co., Inc., Briarcliff Manor, NY.**
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
- North American Rockwell Corp., Canoga Park, CA.**
Noncontaminating swabs
[NASA-CASE-MFS-18100] c 15 N72-11390
- Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265
- Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
- Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
- Heat flow calorimeter
[NASA-CASE-GSC-11434-1] c 34 N74-27859
- North American Rockwell Corp., Downey, CA.**
Spacecraft Patent
[NASA-CASE-MS-13047-1] c 31 N71-25434
- Latching mechanism Patent
[NASA-CASE-MS-15474-1] c 15 N71-26162
- Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
- Frangible link
[NASA-CASE-MS-11849-1] c 15 N72-22488
- Impact monitoring apparatus
[NASA-CASE-MS-15626-1] c 14 N72-25411
- Bonding or repairing process
[NASA-CASE-MS-12357] c 15 N73-12489
- Self-cycling fluid heater
[NASA-CASE-MS-15567-1] c 33 N73-16918
- Phase protection system for ac power lines
[NASA-CASE-MS-17832-1] c 33 N74-14956
- Apparatus for remote handling of materials
[NASA-CASE-LAR-10634-1] c 37 N74-18123
- Grain refinement control in TIG arc welding
[NASA-CASE-MS-19095-1] c 37 N75-19683
- North American Rockwell Corp., El Segundo, CA.**
Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MS-15158-1] c 14 N72-17325
- North American Rockwell Corp., Los Angeles, CA.**
Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013
- North Carolina State Univ., Raleigh.**
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
- Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
- Northeastern Univ., Boston, MA.**
Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390
- Northrop Corp., Hawthorne, CA.**
Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245
- Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
- Northrop Nortronics, Palos Verdes Peninsula, CA.**
Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
- Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451
- Northrop Space Labs., Hawthorne, CA.**
Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
- Nortronics, Palos Verdes Peninsula, CA.**
Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618
- Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
- Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444
- Notre Dame Univ., IN.**
Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
- Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
- Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
- Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
- Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
- Oakland Univ., Rochester, MI.**
Optical process for producing classification maps from multispectral data
[NASA-CASE-MS-14472-1] c 43 N77-10584
- Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MS-16253-1] c 32 N79-20297
- Occidental Research Corp., La Verne, CA.**
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
- Ohio State Univ., Columbus.**
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
- Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359
- Old Dominion Univ., Norfolk, VA.**
Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232
- Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
- High-temperature microphone system
[NASA-CASE-LAR-12375-1] c 32 N79-24203
- Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
- Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
- Oregon Univ., Portland.**
Method for separating biological cells
[NASA-CASE-MFS-23883-1] c 51 N80-16715
- Organon Diagnostics, El Monte, CA.**
Water system virus detection
[NASA-CASE-MS-16098-1] c 51 N79-10693

P

- Packard-Bell Electronics Corp., Newbury Park, CA.**
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
- Pansaura Corp., Pennsauken, NJ.**
Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
- PCR, Inc., Gainesville, FL.**
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
- Peninsular ChemResearch, Inc., Gainesville, FL.**
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121
Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
- Pennsylvania State Univ., University Park.**
Process for the preparation of polycarboranylphosphazenes
[NASA-CASE-ARC-11176-2] c 27 N81-27271
Carboranylchlorophosphazenes and their polymers
[NASA-CASE-ARC-11176-1] c 27 N82-18389
Carboranylethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
- Philco-Ford Corp., Houston, TX.**
Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696
- Philco-Ford Corp., Newport Beach, CA.**
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
- Philco-Ford Corp., Palo Alto, CA.**
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
- Phoenix Corp., McLean, VA.**
External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
- Pittsburgh Univ., PA.**
Method and device for the detection of phenol and related compounds
[NASA-CASE-LEW-12513-1] c 25 N79-22235
- Planning Research Corp., McLean, VA.**
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
- Pratt and Whitney Aircraft, East Hartford, CT.**
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022

Q

- Quantum Dynamics Co., Inc., Tarzana, CA.**
Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015

R

- Radiation, Inc., Melbourne, FL.**
Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007
- Radiation Instrument Development Lab., Inc., Melrose Park, IL.**
High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
- Radiation Systems, Inc., McLean, VA.**
Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483
- Radio Corp. of America, Lancaster, PA.**
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735

Radio Corp. of America, New York, NY.

- Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
- Radio Corp. of America, Princeton, NJ.**
Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
Thermal flux transfer system
[NASA-CASE-NPO-12070-1] c 28 N73-32606
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly
[NASA-CASE-GSC-11560-1] c 33 N74-20861
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331
Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
- RAND Corp., Santa Monica, CA.**
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
- Raymond Engineering Lab., Inc., Middletown, CT.**
Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
- Raytheon Co., Sudbury, MA.**
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
- RCA Labs., Princeton, NJ.**
Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
- RCA Service Co., Inc., Camden, NJ.**
Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788
- Rensselaer Polytechnic Inst., Troy, NY.**
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
- Research Triangle Inst., Durham, NC.**
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422

Rochester General Hospital, NY.

- Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- Rochester Univ., NY.**
Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003
- Rockwell International Corp., Canoga Park, CA.**
Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
Internally supported flexible duct joint
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Stable superconducting magnet
[NASA-CASE-XMF-05373-1] c 33 N79-21264
- Rockwell International Corp., Downey, CA.**
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383
Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
Flexible pile thermal barrier insulator
[NASA-CASE-MSC-19568-1] c 34 N78-25350
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415
Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097

- Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
- Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
- Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
- Thermal barrier pressure seal
[NASA-CASE-MSC-18134-1] c 37 N81-15363
- Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
- Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
- High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
- A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
- Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
- Attachment system for silica tiles
[NASA-CASE-MSC-18741-1] c 27 N82-29456
- Method for repair of thin glass coatings
[NASA-CASE-KSC-11097-1] c 27 N82-33520
- Degassing and mixing apparatus for liquids
[NASA-CASE-MSC-18936-1] c 35 N83-29652
- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
- Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
- Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
- Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581
- Rockwell International Corp., Houston, TX.**
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
- Rockwell International Corp., Los Angeles, CA.**
Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
- Rockwell International Corp., Pittsburgh, PA.**
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
- Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
- Roph Corp., Chula Vista, CA.**
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
- Royal Aircraft Establishment, Farnborough (England).**
Garments for controlling the temperature of the body
Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
- Ryan Aeronautical Co., San Diego, CA.**
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
- Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033

S

- San Jose State Univ., CA.**
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764
- Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
- Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
- Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
- Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
- Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
- Perfluoro (imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
- Sanders Associates, Inc., Nashua, NH.**
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316

- Sandia Labs., Albuquerque, NM.**
Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
- Santa Barbara Research Center, Goleta, CA.**
Scanner
[NASA-CASE-GSC-12032-2] c 43 N82-13465
- Santa Clara Univ., CA.**
Reversed cowl flap inlet thrust augmentor
[NASA-CASE-ARC-10754-1] c 07 N75-24736
- System for measuring Reynolds in a turbulently flowing fluid
[NASA-CASE-ARC-10755-2] c 34 N76-27517
- System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
- Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
- Schjeldahl (G. T.) Co., Northfield, MN.**
Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
- Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164
- Science Applications, Inc., La Jolla, CA.**
Violet-violet process for producing flame resistant polyamides and products produced thereby
[NASA-CASE-MSC-16074-1] c 27 N80-26446
- Scott Aviation Corp., Lancaster, NY.**
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900
- Serv-Air, Inc., Edwards, CA.**
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
- Serv-Air, Inc., Houston, TX.**
Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544
- Sheldahl Co., Northfield, MN.**
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
- Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227
- Sikorsky Aircraft, Stratford, CT.**
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
- Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
- Singer Co., Binghamton, NY.**
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
- Singer-General Precision, Inc., Binghamton, NY.**
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
- Smith (Stephen F.), Knoxville, TN.**
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
- Smith Electronics, Inc., Cleveland, OH.**
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
- Smithsonian Astrophysical Observatory, Cambridge, MA.**
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
- Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
- Solid State Radiations, Inc., Los Angeles, CA.**
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
- Southern Methodist Univ., Dallas, TX.**
Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
- Southern Research Inst., Birmingham, AL.**
Infusible silazane polymer and process for producing same
[NASA-CASE-XMF-02526-1] c 27 N79-21190
- Southwest Research Inst., San Antonio, TX.**
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
- Thin film strain transducer
[NASA-CASE-WLP-10055-2] c 35 N85-21598
- Space Sciences, Inc., Waltham, MA.**
Doppler shift system
[NASA-CASE-HQN-10740-1] c 72 N74-19310
- Space Technology Labs., Inc., Redondo Beach, CA.**
AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910
- Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
- Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078

- Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
- Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
- Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
- Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
- Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048
- Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
- Spacelabs, Inc., Van Nuys, CA.**
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
- Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
- Spaco, Inc., Huntsville, AL.**
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
- Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993
- Spectra-Physics, Inc., Mountain View, CA.**
Optically pumped resonance magnetometer for determining vectorial components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
- Spectrolab, Inc., Sylmar, CA.**
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
- Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
- Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019
- Sperry Gyroscope Co., Great Neck, NY.**
Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
- Sperry Rand Corp., Blue Bell, PA.**
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
- Sperry Rand Corp., Huntsville, AL.**
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
- Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
- Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133
- Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176
- Device for configuring multiple leads
[NASA-CASE-MFS-22133-1] c 33 N74-26977
- System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395
- Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
- Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c 44 N77-10635
- Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
- FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
- Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
- Sperry Rand Corp., Phoenix, AZ.**
Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
- Stanford Research Inst., Menlo Park, CA.**
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
- Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
- Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
- Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
- Stanford Univ., CA.**
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
- Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
- Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624
- Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653

Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251

Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260

Fibrous refractory composite insulation
[NASA-CASE-ARC-11169-1] c 24 N79-24062

Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551

High temperature glass thermal control structure and coating
[NASA-CASE-ARC-11164-1] c 44 N83-34448

Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598

Stanford Univ., Palo Alto, CA.
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171

State Univ. of Iowa, Iowa City.
Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742

Sylvania Electronic Systems-Central, Williamsville, NY.
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437

Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326

T

Taag Designs, Inc., College Park, MD.
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062

Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443

Taft Broadcasting Corp., Houston, TX.
Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485

Tamarack Scientific Co., Inc., Orange, CA.
Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c 35 N76-29551

Technicolor, Inc., Paramus, NJ.
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319

Technidyne, Inc., West Chester, PA.
Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686

Technion - Israel Inst. of Tech., Haifa.
Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

Technion Research and Development Foundation Ltd., Haifa (Israel).
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442

Technology, Inc., Houston, TX.
Apparatus and method for processing Korotkov sounds
[NASA-CASE-MSC-13999-1] c 52 N74-26626

Technology, Inc., San Antonio, TX.
Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225

Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096

Teledyne Brown Engineering, Huntsville, AL.
Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420

Temple Univ. Research Inst., Philadelphia, PA.
Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097

Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360

Texas A&M Univ., College Station.
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950

Texas Instruments, Inc., Dallas.
Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205

Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650

Texas Technological Univ., Lubbock.
Insulated electrocardiographic electrodes
[NASA-CASE-MSC-14339-1] c 05 N75-24716

Thiokol Chemical Corp., Bristol, PA.
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213

Thiokol Corp., Brigham City, UT.
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471

Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

Thompson Ramo Wooldridge, Inc., Cleveland, OH.
Electromagnetic radiation energy arrangement
[NASA-CASE-WOO-00428-1] c 32 N79-19186

Tisdale (Henry F., Sr.), Treasure Island, FL.
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106

Trans-Sonics, Inc., Lexington, MA.
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442

TransTechnology Corp., Canyon Country, CA.
Slide release mechanism
[NASA-CASE-MSC-20080-1] c 37 N85-30334

Trident Engineering Associates, Inc., Annapolis, MD.
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206

TRW, Inc., Redondo Beach, CA.
Method of and device for determining the characteristics and flux distribution of micrometeorites
[NASA-CASE-NPO-12127-1] c 91 N74-13130

Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125

Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568

Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031

Particle parameter analyzing system
[NASA-CASE-XLE-06094] c 33 N78-17293

Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294

Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296

Heat pipe with dual working fluids
[NASA-CASE-ARC-10198] c 34 N78-17336

Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337

Microbalance
[NASA-CASE-MSC-11242] c 35 N78-17358

Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366

Wobble gear drive mechanism
[NASA-CASE-WOO-00625] c 37 N78-17385

Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386

Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447

Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

TRW Defense and Space Systems Group, Redondo Beach, CA.
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071

TRW Equipment Labs., Cleveland, OH.
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057

TRW Systems Group, Redondo Beach, CA.
Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185

Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032

Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654

Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580

Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615

Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694

Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414

Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332

Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155

Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363

Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 08 N72-21200

System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772

Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262

Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226

Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185

Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431

Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397

Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413

Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478

Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349

Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427

Tyco Labs., Inc., Waltham, MA.
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786

Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037

Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138

U

Ultrasystems, Inc., Irvine, CA.
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256

Compound oxidized styrylphosphine
[NASA-CASE-MSC-14903-2] c 27 N80-10358

Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438

Unified Science Associates, Inc., Pasadena, CA.
Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466

Union Carbide Corp., New York, NY.
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400

United Aircraft Corp., East Hartford, CT.
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383

Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007

Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623

Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730

Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153

Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119

Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295

Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677

Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678

Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679

Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680

Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761

Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468

Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002

Glass compositions with a high modulus of elasticity
[NASA-CASE-HQN-10274-1] c 27 N82-29451

High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452

Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454

United Aircraft Corp., Stratford, CT.
Bonded joint and method
[NASA-CASE-LAR-10900-1] c 37 N74-23064

Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087

United Aircraft Corp., Sunnyvale, CA.
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319

United Aircraft Corp., West Palm Beach, FL.
Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935

United Aircraft Corp., Windsor Locks, CT.
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427

W

- Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
- United States Radium Corp., Parsippany, NJ.**
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
- United Technologies Corp., East Hartford, CT.**
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
Fluid thrust control system
[NASA-CASE-XMF-05964-1] c 20 N79-21124
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
Portable breathing system
[NASA-CASE-MSC-16182-1] c 54 N80-10799
High modulus rare earth and beryllium containing silicate glass compositions
[NASA-CASE-HON-10595-1] c 27 N82-29455
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
- United Technologies Corp., South Windsor, CT.**
Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
- United Technologies Corp., Windsor Locks, CT.**
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
- United Technology Center, Sunnyvale, CA.**
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
- University of Southern Mississippi, Hattiesburg.**
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

V

- Vanderbilt Univ., Nashville, TN.**
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
- Vapor Corp., Chicago, IL.**
Method and apparatus for controllably heating fluid
Patent
[NASA-CASE-XMF-04237] c 33 N71-16278
- Varian Associates, Palo Alto, CA.**
High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409
- Virginia Associated Research Center, Newport News.**
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
- Virginia Polytechnic Inst. and State Univ., Blacksburg.**
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups
[NASA-CASE-LAR-12838-1] c 27 N83-34040
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
- Virginia Univ., Charlottesville.**
Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460
Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
- Vivonex Corp., Mountain View, CA.**
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- Vought Corp., Hampton, VA.**
Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732

Weber Aircraft Corp., Burbank, CA.

- Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718
Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085
- Westinghouse Electric Corp., Baltimore, MD.**
Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
- Westinghouse Electric Corp., Huntsville, AL.**
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
- Westinghouse Electric Corp., Lima, OH.**
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
- Westinghouse Electric Corp., Pittsburgh, PA.**
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031
Phototransistor imaging system
[NASA-CASE-MFS-20809] c 23 N73-13660
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
- Westinghouse Electric Corp., Trafford, PA.**
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494
Method of producing silicon
[NASA-CASE-NPO-14382-1] c 31 N80-18231
- Weston Instruments, Inc., College Park, MD.**
Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
- Whirlpool Corp., Saint Joseph, MI.**
Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192
Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435

Whittaker Corp., Los Angeles, CA.

- Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103
Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
- Whittaker Corp., San Diego, CA.**
Reinforced polyquinoxaline gasket and method of preparing the same
[NASA-CASE-MFS-21364-1] c 37 N74-18126
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
- Wisconsin Univ., Madison.**
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737

Y

Youngstown State Univ., OH.

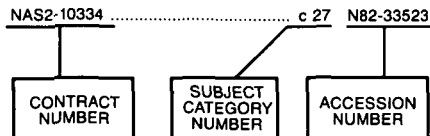
- Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614

CONTRACT NUMBER INDEX

NASA PATENT ABSTRACTS BIBLIOGRAPHY Section 2

JULY 1992

Typical Contract Number Index Listing



Listings in this index are arranged alphanumerically by contract number. Under each contract number, the accession numbers denoting documents that have been produced as a result of research done under the contract are arranged in ascending accession number order. The subject category number indicates the category in Section 1 (Abstracts) in which the citation is located.

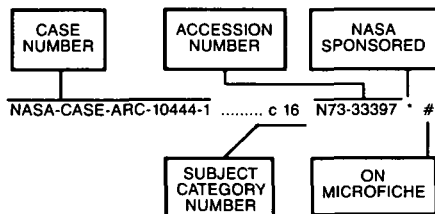
JPL-950596	c 15	N69-23185
JPL-950850	c 09	N69-24329
JPL-951531	c 09	N69-21926
NAG1-672	c 23	N90-21118
NASW-1233	c 06	N72-10138
NASW-4004	c 24	N85-25436
NAS1-2593	c 11	N69-24321
NAS12-2135	c 09	N72-20206
NAS12-514	c 14	N71-34389
NAS2-10334	c 27	N82-33523
NAS3-24565	c 33	N90-22724
NAS3-2510	c 10	N69-39888
NAS3-3232	c 14	N69-24331
NAS4-1403	c 14	N70-35587
NAS5-10260	c 06	N72-21105
NAS5-519	c 23	N69-24332
NAS7-100	c 15	N69-23185
	c 15	N69-23190
	c 15	N69-24319
	c 09	N69-24329
	c 09	N69-24333
	c 06	N69-31244
	c 07	N69-39736
	c 18	N69-39895
	c 09	N69-39929
	c 15	N69-39935
	c 06	N69-39936
	c 14	N69-39937
	c 03	N70-34646
	c 08	N70-34675
	c 14	N70-34697
	c 15	N70-34699
	c 03	N71-34044
	c 07	N72-20154
	c 09	N73-12214
	c 15	N73-12495
	c 37	N76-16446
	c 35	N78-18395
	c 32	N79-19195
	c 27	N80-16163
	c 32	N80-16261
	c 35	N80-18364
	c 37	N82-11469
	c 35	N82-25484
	c 71	N82-27086
	c 25	N83-24572
	c 76	N84-12968
	c 43	N84-23012
	c 36	N84-25037
	c 76	N85-30922
	c 33	N86-20681

NAS7-150	c 37	N86-20801
NAS7-603	c 03	N69-21337
	c 06	N70-11251
	c 06	N70-11252
NAS7-746	c 06	N72-27151
NAS7-918	c 34	N85-29182
	c 60	N86-24224
	c 76	N86-25269
	c 74	N86-33138
	c 33	N87-10231
	c 37	N87-14704
	c 32	N87-15390
	c 33	N87-15413
	c 29	N87-25489
	c 62	N87-25803
	c 76	N87-25868
	c 31	N88-23917
	c 34	N88-23946
	c 33	N88-24863
	c 35	N88-24943
	c 74	N88-25301
	c 74	N88-25304
	c 74	N88-25305
	c 32	N88-26541
	c 33	N88-29095
	c 76	N89-14120
	c 60	N89-26400
	c 32	N89-26676
	c 32	N89-28684
	c 33	N89-28713
	c 35	N89-28795
	c 72	N89-29169
	c 31	N89-29577
	c 33	N89-29679
	c 33	N89-29681
	c 37	N89-29750
	c 27	N90-10261
	c 32	N90-16104
	c 32	N90-16974
	c 33	N90-17010
	c 35	N90-17104
	c 76	N90-17456
	c 17	N90-21061
	c 31	N90-21215
	c 35	N90-22769
	c 34	N90-23700
	c 60	N90-25583
	c 43	N90-26384
	c 60	N90-26518
	c 60	N90-26519
	c 76	N90-26685
	c 24	N90-26880
	c 32	N90-27016
	c 33	N90-27040
	c 34	N90-27070
	c 51	N90-27239
	c 60	N90-27268
	c 61	N90-27341
	c 62	N90-27385
	c 74	N90-27488
	c 76	N90-27517
	c 76	N90-27518
	c 32	N91-13594
	c 32	N91-13595
	c 33	N91-13621
	c 33	N91-13622
	c 34	N91-13658
	c 37	N91-13724
	c 39	N91-13767
	c 60	N91-13888
	c 74	N91-13998
	c 33	N91-21434
	c 37	N91-21544
	c 43	N91-21621
	c 47	N91-23662
	c 63	N91-23783
	c 74	N91-23890
	c 32	N91-25316
	c 32	N91-25318
	c 34	N91-25380
	c 62	N91-25693
	c 74	N91-25841
	c 27	N91-27372

NAS8-11561	c 31	N91-27385
NAS8-34872	c 32	N91-27439
NAS9-10963	c 33	N91-27478
	c 74	N91-27957
	c 36	N91-32489
	c 37	N91-32509
	c 37	N91-32510
	c 60	N91-32805
	c 74	N91-32923
	c 74	N91-32924
	c 74	N91-32925
	c 74	N91-32926
	c 32	N92-10125
	c 32	N92-10126
	c 33	N92-10146
	c 71	N92-10609
	c 74	N92-11791
	c 60	N92-12438
	c 31	N92-17674
	c 74	N92-17675
	c 36	N92-17862
	c 74	N92-17864
	c 33	N92-17865
	c 60	N92-17884
	c 74	N92-17892
	c 63	N92-17895
	c 36	N92-17899
	c 33	N92-17907
	c 09	N69-39734
	c 35	N86-26598
	c 05	N72-15098

CONTRACT

Typical Number Index Listing



Listings in this index are arranged alphanumerically by "patent" number. The subject category number indicates the category in Section 1 (Abstracts) in which the citation is located. The accession number denotes the number by which the citation is identified within the subject category. An asterisk (*) indicates that the item is a NASA report. A pound sign (#) indicates that the item is available on microfiche.

INNT-PATENT-CLASS-B23K-20/08 c 31 N92-16162 *

INT-PATENT-CLASS-A47K-11/00 c 54 N91-14724 *
 INT-PATENT-CLASS-A61B-5/00 c 35 N90-23706 *
 INT-PATENT-CLASS-A61B-8/00 c 71 N91-27914 *
 INT-PATENT-CLASS-A61B-8/00 c 52 N92-11621 *
 INT-PATENT-CLASS-A61F-2/58 c 54 N91-32795 *
 INT-PATENT-CLASS-A61F-2/68 c 54 N91-32795 *

INT-PATENT-CLASS-B01D-29/04 c 51 N91-14703 *
 INT-PATENT-CLASS-B01D-29/42 c 51 N91-14703 *
 INT-PATENT-CLASS-B01F-3/02 c 35 N91-21496 *
 INT-PATENT-CLASS-B01J-29/10 c 25 N92-10073 *
 INT-PATENT-CLASS-B05B-1/02 c 34 N92-21724 *
 INT-PATENT-CLASS-B05B-1/14 c 34 N92-21724 *
 INT-PATENT-CLASS-B05D-1/24 c 24 N92-10070 *
 INT-PATENT-CLASS-B05D-5/12 c 26 N92-10681 *
 INT-PATENT-CLASS-B22D-27/04 c 76 N91-14462 *
 INT-PATENT-CLASS-B23B-39/00 c 35 N92-21723 *
 INT-PATENT-CLASS-B23D-21/06 c 37 N91-31655 *
 INT-PATENT-CLASS-B23H-9/00 c 27 N91-25296 *
 INT-PATENT-CLASS-B23H-9/00 c 35 N92-22038 *
 INT-PATENT-CLASS-B23K-20/08 c 31 N91-31476 *
 INT-PATENT-CLASS-B23K-26/00 c 31 N91-14508 *
 INT-PATENT-CLASS-B23K-26/00 c 37 N91-32508 *
 INT-PATENT-CLASS-B23K-9/00 c 75 N91-25875 *
 INT-PATENT-CLASS-B23K-9/16 c 31 N90-23586 *
 INT-PATENT-CLASS-B23K-9/24 c 31 N90-26168 *
 INT-PATENT-CLASS-B23Q-3/155 c 37 N91-31656 *
 INT-PATENT-CLASS-B24G-1/00 c 18 N91-21222 *
 INT-PATENT-CLASS-B25B-11/00 c 37 N91-21545 *
 INT-PATENT-CLASS-B25G-3/00 c 37 N91-14610 *
 INT-PATENT-CLASS-B25G-3/00 c 18 N91-21221 *
 INT-PATENT-CLASS-B25G-3/18 c 37 N91-14614 *
 INT-PATENT-CLASS-B25G-3/18 c 31 N92-16161 *
 INT-PATENT-CLASS-B25J-15/08 c 37 N91-14615 *
 INT-PATENT-CLASS-B26B-27/00 c 37 N91-31655 *
 INT-PATENT-CLASS-B26D-3/16 c 37 N91-31655 *
 INT-PATENT-CLASS-B29B-33/02 c 27 N90-23566 *
 INT-PATENT-CLASS-B29B-9/10 c 34 N90-23700 *
 INT-PATENT-CLASS-B32B-15/08 c 76 N90-24168 *
 INT-PATENT-CLASS-B32B-5/14 c 24 N92-16026 *
 INT-PATENT-CLASS-B32B-7/02 c 76 N90-24168 *
 INT-PATENT-CLASS-B32B-7/08 c 24 N91-31236 *
 INT-PATENT-CLASS-B43L-13/24 c 35 N92-10186 *
 INT-PATENT-CLASS-B60P-7/15 c 37 N91-27561 *
 INT-PATENT-CLASS-B60T-13/04 c 37 N92-21728 *
 INT-PATENT-CLASS-B61D-15/08 c 37 N91-32514 *
 INT-PATENT-CLASS-B63C-9/01 c 03 N91-31113 *
 INT-PATENT-CLASS-B64B-21/00 c 34 N91-14562 *
 INT-PATENT-CLASS-B64C-1/22 c 03 N91-31113 *
 INT-PATENT-CLASS-B64C-17/00 c 02 N91-27139 *
 INT-PATENT-CLASS-B64C-19/00 c 05 N91-31140 *
 INT-PATENT-CLASS-B64C-21/10 c 05 N92-21587 *
 INT-PATENT-CLASS-B64C-7/00 c 05 N91-27156 *

INT-PATENT-CLASS-B64C-9/02 c 05 N90-23390 *
 INT-PATENT-CLASS-B64C-9/08 c 05 N90-23390 *
 INT-PATENT-CLASS-B64D-1/00 c 35 N90-22769 *
 INT-PATENT-CLASS-B64D-1/02 c 05 N91-27156 *
 INT-PATENT-CLASS-B64D-1/08 c 03 N91-31113 *
 INT-PATENT-CLASS-B64D-1/12 c 37 N91-32498 *
 INT-PATENT-CLASS-B64D-25/08 c 03 N91-15142 *
 INT-PATENT-CLASS-B64D-33/00 c 05 N91-14345 *
 INT-PATENT-CLASS-B64D-33/04 c 37 N90-23751 *
 INT-PATENT-CLASS-B64D-33/04 c 37 N91-27560 *
 INT-PATENT-CLASS-B64D-9/00 c 03 N91-31113 *
 INT-PATENT-CLASS-B64G-1/14 c 16 N90-22584 *
 INT-PATENT-CLASS-B64G-1/14 c 16 N92-16007 *
 INT-PATENT-CLASS-B64G-1/28 c 34 N91-25380 *
 INT-PATENT-CLASS-B64G-1/42 c 18 N91-27201 *
 INT-PATENT-CLASS-B64G-1/46 c 54 N91-31803 *
 INT-PATENT-CLASS-B64G-1/62 c 18 N92-21999 *
 INT-PATENT-CLASS-B64G-1/64 c 18 N91-14374 *
 INT-PATENT-CLASS-B66F-11/04 c 54 N92-16559 *

INT-PATENT-CLASS-C01B-31/04 c 27 N92-10090 *
 INT-PATENT-CLASS-C04B-35/10 c 27 N92-16122 *
 INT-PATENT-CLASS-C07C-15/16 c 23 N91-17141 *
 INT-PATENT-CLASS-C07C-15/16 c 23 N91-25185 *
 INT-PATENT-CLASS-C07D-20/74 c 23 N91-14419 *
 INT-PATENT-CLASS-C07S-9/40 c 23 N90-23475 *
 INT-PATENT-CLASS-C08F-283/00 c 27 N91-31307 *
 INT-PATENT-CLASS-C08F-283/04 c 27 N91-31307 *
 INT-PATENT-CLASS-C08G-14/00 c 23 N91-27220 *
 INT-PATENT-CLASS-C08G-16/00 c 27 N91-31307 *
 INT-PATENT-CLASS-C08G-69/26 c 27 N91-15403 *
 INT-PATENT-CLASS-C08G-73/10 c 27 N91-14418 *
 INT-PATENT-CLASS-C08G-73/10 c 27 N91-15402 *
 INT-PATENT-CLASS-C08G-73/10 c 27 N91-31307 *
 INT-PATENT-CLASS-C08G-8/02 c 23 N91-27220 *
 INT-PATENT-CLASS-C08J-5/08 c 27 N92-21711 *
 INT-PATENT-CLASS-C08K-3/04 c 27 N92-21711 *
 INT-PATENT-CLASS-C08L-79/08 c 27 N92-21711 *
 INT-PATENT-CLASS-C12M-03/06 c 51 N91-21701 *
 INT-PATENT-CLASS-C12M-3/02 c 51 N91-30667 *
 INT-PATENT-CLASS-C21D-1/09 c 09 N90-23415 *
 INT-PATENT-CLASS-C23F-1/00 c 76 N92-10681 *
 INT-PATENT-CLASS-C30B-7/02 c 76 N90-23242 *

INT-PATENT-CLASS-E03D-9/04 c 54 N91-14723 *
 INT-PATENT-CLASS-E04H-12/18 c 18 N91-27199 *
 INT-PATENT-CLASS-E05C-5/02 c 37 N92-21500 *
 INT-PATENT-CLASS-E05C-5/04 c 37 N91-27561 *

INT-PATENT-CLASS-F01B-19/00 c 35 N91-21494 *
 INT-PATENT-CLASS-F01D-11/08 c 37 N91-14608 *
 INT-PATENT-CLASS-F02K-9/58 c 20 N92-15122 *
 INT-PATENT-CLASS-F02R-9/52 c 20 N92-10054 *
 INT-PATENT-CLASS-F03D-9/00 c 37 N90-23742 *
 INT-PATENT-CLASS-F16B-1/00 c 37 N91-14610 *
 INT-PATENT-CLASS-F16B-19/00 c 37 N92-21726 *
 INT-PATENT-CLASS-F16B-35/02 c 37 N92-21726 *
 INT-PATENT-CLASS-F16C-11/00 c 37 N91-15544 *
 INT-PATENT-CLASS-F16D-3/02 c 37 N91-17387 *
 INT-PATENT-CLASS-F16D-3/50 c 37 N91-17388 *
 INT-PATENT-CLASS-F16J-15/46 c 37 N92-16318 *
 INT-PATENT-CLASS-F16J-15/46 c 37 N90-23751 *
 INT-PATENT-CLASS-F16J-15/46 c 37 N91-27560 *
 INT-PATENT-CLASS-F16J-15/46 c 37 N92-22043 *
 INT-PATENT-CLASS-F16K-1/22 c 37 N91-14609 *
 INT-PATENT-CLASS-F16K-3/316 c 34 N91-14563 *
 INT-PATENT-CLASS-F16K-3/32 c 34 N91-14563 *
 INT-PATENT-CLASS-F16K-3/32 c 34 N91-27504 *
 INT-PATENT-CLASS-F16K-31/06 c 34 N91-27504 *
 INT-PATENT-CLASS-F16K-37/00 c 34 N91-14563 *
 INT-PATENT-CLASS-F16L-15/00 c 37 N92-10197 *
 INT-PATENT-CLASS-F16L-35/00 c 37 N91-14613 *
 INT-PATENT-CLASS-F16L-55/04 c 31 N91-25305 *
 INT-PATENT-CLASS-F16M-13/00 c 37 N91-14617 *
 INT-PATENT-CLASS-F16M-13/00 c 37 N91-21541 *
 INT-PATENT-CLASS-F16M-13/00 c 37 N91-21543 *
 INT-PATENT-CLASS-F17C-11/00 c 31 N92-15203 *
 INT-PATENT-CLASS-F23J-1/00 c 31 N91-15423 *
 INT-PATENT-CLASS-F27B-5/14 c 14 N91-27175 *
 INT-PATENT-CLASS-F27D-11/10 c 14 N91-27175 *
 INT-PATENT-CLASS-F28D-15/02 c 27 N90-23541 *
 INT-PATENT-CLASS-F28D-15/02 c 34 N91-21473 *
 INT-PATENT-CLASS-F28F-7/00 c 31 N91-27385 *

INT-PATENT-CLASS-F41B-6/00 c 14 N92-15081 *
 INT-PATENT-CLASS-F41G-11/00 c 35 N91-14591 *
 INT-PATENT-CLASS-F41H-5/04 c 18 N92-15114 *
 INT-PATENT-CLASS-F8-15/00 c 31 N91-15424 *

INT-PATENT-CLASS-G01B-11/00 c 74 N91-32922 *
 INT-PATENT-CLASS-G01B-11/26 c 35 N91-15512 *
 INT-PATENT-CLASS-G01B-15/06 c 38 N90-23756 *
 INT-PATENT-CLASS-G01B-5/02 c 35 N92-22039 *
 INT-PATENT-CLASS-G01B-9/02 c 74 N91-21871 *
 INT-PATENT-CLASS-G01B-9/02 c 74 N92-22034 *
 INT-PATENT-CLASS-G01C-1/00 c 35 N91-15512 *
 INT-PATENT-CLASS-G01C-3/08 c 35 N91-15512 *
 INT-PATENT-CLASS-G01F-1/00 c 34 N91-31596 *
 INT-PATENT-CLASS-G01F-17/00 c 35 N91-15511 *
 INT-PATENT-CLASS-G01F-17/00 c 35 N91-21493 *
 INT-PATENT-CLASS-G01F-17/00 c 35 N91-21495 *
 INT-PATENT-CLASS-G01F-9/00 c 35 N92-21710 *
 INT-PATENT-CLASS-G01K-15/00 c 71 N91-14807 *
 INT-PATENT-CLASS-G01K-17/06 c 35 N91-31608 *
 INT-PATENT-CLASS-G01K-17/16 c 35 N91-31608 *
 INT-PATENT-CLASS-G01L-19/04 c 35 N92-21586 *
 INT-PATENT-CLASS-G01L-3/00 c 35 N91-17350 *
 INT-PATENT-CLASS-G01L-5/16 c 35 N92-10185 *
 INT-PATENT-CLASS-G01M-19/00 c 14 N91-21176 *
 INT-PATENT-CLASS-G01M-3/28 c 14 N91-21176 *
 INT-PATENT-CLASS-G01M-7/02 c 14 N91-21175 *
 INT-PATENT-CLASS-G01M-9/00 c 35 N90-23707 *
 INT-PATENT-CLASS-G01M-9/00 c 09 N91-14357 *
 INT-PATENT-CLASS-G01M-9/00 c 35 N92-10185 *
 INT-PATENT-CLASS-G01M-9/00 c 02 N92-21588 *
 INT-PATENT-CLASS-G01N-1/00 c 34 N92-16241 *
 INT-PATENT-CLASS-G01N-21/64 c 76 N90-24150 *
 INT-PATENT-CLASS-G01N-21/84 c 76 N90-24150 *
 INT-PATENT-CLASS-G01N-23/20 c 74 N91-14835 *
 INT-PATENT-CLASS-G01N-25/50 c 25 N91-32196 *
 INT-PATENT-CLASS-G01N-27/72 c 27 N90-23544 *
 INT-PATENT-CLASS-G01N-3/00 c 24 N91-14430 *
 INT-PATENT-CLASS-G01N-3/08 c 14 N91-27175 *
 INT-PATENT-CLASS-G01N-3/20 c 37 N91-21540 *
 INT-PATENT-CLASS-G01N-3/32 c 35 N90-23712 *
 INT-PATENT-CLASS-G01N-31/12 c 09 N91-21157 *
 INT-PATENT-CLASS-G01P-3/36 c 36 N90-25340 *
 INT-PATENT-CLASS-G01R-1/04 c 33 N91-14552 *
 INT-PATENT-CLASS-G01R-27/00 c 27 N90-23544 *
 INT-PATENT-CLASS-G01R-33/12 c 27 N90-23544 *
 INT-PATENT-CLASS-G01S-13/86 c 43 N91-21621 *
 INT-PATENT-CLASS-G01S-13/89 c 43 N91-21621 *
 INT-PATENT-CLASS-G01S-13/89 c 43 N91-32546 *
 INT-PATENT-CLASS-G01S-13/90 c 43 N91-14642 *
 INT-PATENT-CLASS-G01S-5/02 c 04 N91-14321 *
 INT-PATENT-CLASS-G01W-1/00 c 19 N91-14412 *
 INT-PATENT-CLASS-G02B-1/01 c 74 N92-16808 *
 INT-PATENT-CLASS-G02B-1/12 c 74 N92-16808 *
 INT-PATENT-CLASS-G02B-21/26 c 37 N91-21545 *
 INT-PATENT-CLASS-G02B-21/32 c 37 N91-21545 *
 INT-PATENT-CLASS-G02B-23/00 c 35 N91-14591 *
 INT-PATENT-CLASS-G02B-23/00 c 74 N92-16810 *
 INT-PATENT-CLASS-G02B-27/28 c 36 N92-16290 *
 INT-PATENT-CLASS-G02B-27/64 c 35 N91-14590 *
 INT-PATENT-CLASS-G02B-27/64 c 74 N92-16811 *
 INT-PATENT-CLASS-G02B-3/00 c 74 N92-16810 *
 INT-PATENT-CLASS-G02B-5/122 c 18 N91-27200 *
 INT-PATENT-CLASS-G02B-5/23 c 74 N92-16808 *
 INT-PATENT-CLASS-G02B-6/02 c 74 N91-21871 *
 INT-PATENT-CLASS-G02B-6/16 c 74 N91-21871 *
 INT-PATENT-CLASS-G02B-7/02 c 74 N92-16811 *
 INT-PATENT-CLASS-G02B-7/18 c 35 N91-14590 *
 INT-PATENT-CLASS-G03H-1/02 c 35 N91-13694 *
 INT-PATENT-CLASS-G05B-19/24 c 63 N91-31885 *
 INT-PATENT-CLASS-G05B-19/42 c 33 N91-31528 *
 INT-PATENT-CLASS-G05F-11/12 c 33 N91-27479 *
 INT-PATENT-CLASS-G06F-1/02 c 33 N90-23636 *
 INT-PATENT-CLASS-G06F-12/00 c 62 N91-25693 *
 INT-PATENT-CLASS-G06F-15/00 c 37 N92-22036 *
 INT-PATENT-CLASS-G06F-15/16 c 62 N91-14769 *
 INT-PATENT-CLASS-G06F-15/18 c 61 N91-14741 *
 INT-PATENT-CLASS-G06F-15/20 c 17 N91-14731 *
 INT-PATENT-CLASS-G06F-15/20 c 32 N91-25317 *
 INT-PATENT-CLASS-G06F-15/20 c 62 N92-15620 *
 INT-PATENT-CLASS-G06F-15/46 c 63 N91-31885 *
 INT-PATENT-CLASS-G06F-15/50 c 04 N91-31120 *
 INT-PATENT-CLASS-G06F-9/46 c 62 N91-14769 *

INT-PATENT-CLASS-G06G-7/12

REPORT NUMBER INDEX

INT-PATENT-CLASS-G06G-7/12	c 62	N91-32852 *	NAS 1.71:LAR-12723-1	c 27	N85-20123 *	NAS 1.71:LAR-14608-1	c 27	N92-17676 *	#
INT-PATENT-CLASS-G06G-7/12	c 32	N92-22033 *	NAS 1.71:LAR-12775-2	c 27	N85-21349 *	NAS 1.71:LAR-14626-1	c 38	N92-17859 *	#
INT-PATENT-CLASS-G06G-7/48	c 62	N92-15620 *	NAS 1.71:LAR-12787-2	c 08	N85-19985 *	NAS 1.71:LAR-14639-1	c 27	N92-11199 *	#
INT-PATENT-CLASS-G08B-21/00	c 37	N91-14607 *	NAS 1.71:LAR-12858-2	c 27	N85-20124 *	NAS 1.71:LAR-14685-1	c 02	N91-28135 *	#
INT-PATENT-CLASS-G11C-29/00	c 60	N91-31810 *	NAS 1.71:LAR-12868-1	c 37	N85-21651 *	NAS 1.71:LAR-14741-1	c 39	N92-11384 *	#
			NAS 1.71:LAR-12884	c 18	N84-33450 *	NAS 1.71:LAR-14763-1	c 27	N92-12121 *	#
INT-PATENT-CLASS-H01B-1/00	c 27	N92-16121 *	NAS 1.71:LAR-12894-1	c 27	N85-20125 *	NAS 1.71:LAR-14773-1	c 27	N92-10105 *	#
INT-PATENT-CLASS-H01B-1/06	c 24	N91-15320 *	NAS 1.71:LAR-12979-1	c 05	N85-21147 *	NAS 1.71:LEW-12995-1	c 37	N84-33808 *	#
INT-PATENT-CLASS-H01C-31/58	c 44	N92-22037 *	NAS 1.71:LAR-13014-1	c 09	N85-21178 *	NAS 1.71:LEW-13324-2	c 24	N85-21266 *	#
INT-PATENT-CLASS-H01F-27/30	c 33	N91-14539 *	NAS 1.71:LAR-13065-1	c 35	N85-20295 *	NAS 1.71:LEW-13414-1	c 44	N85-20530 *	#
INT-PATENT-CLASS-H01J-25/34	c 33	N90-22724 *	NAS 1.71:LAR-13230-1	c 24	N84-34571 *	NAS 1.71:LEW-13495-1	c 33	N84-33663 *	#
INT-PATENT-CLASS-H01J-37/00	c 72	N91-27936 *	NAS 1.71:LAR-13233-1	c 05	N84-33400 *	NAS 1.71:LEW-13524-1	c 07	N84-33410 *	#
INT-PATENT-CLASS-H01L-21/306	c 25	N91-31258 *	NAS 1.71:LAR-13256-1	c 36	N86-29204 *	NAS 1.71:LEW-13639-1	c 26	N84-33555 *	#
INT-PATENT-CLASS-H01L-21/324	c 76	N91-28014 *	NAS 1.71:LAR-13257-1	c 25	N84-32447 *	NAS 1.71:LEW-13770-3	c 27	N85-21350 *	#
INT-PATENT-CLASS-H01L-27/02	c 74	N91-25841 *	NAS 1.71:LAR-13292-1	c 27	N86-24841 *	NAS 1.71:LEW-13770-4	c 27	N85-21351 *	#
INT-PATENT-CLASS-H01L-27/12	c 76	N92-22041 *	NAS 1.71:LAR-13387-1	c 74	N88-25302 *	NAS 1.71:LEW-13770-5	c 27	N85-21352 *	#
INT-PATENT-CLASS-H01L-27/14	c 33	N91-14551 *	NAS 1.71:LAR-13388-1	c 25	N91-28321 *	NAS 1.71:LEW-13827-1	c 44	N85-21768 *	#
INT-PATENT-CLASS-H01L-27/14	c 33	N91-21434 *	NAS 1.71:LAR-13447-1	c 27	N88-18725 *	NAS 1.71:LEW-13833-1	c 33	N85-21492 *	#
INT-PATENT-CLASS-H01L-29/161	c 74	N91-25841 *	NAS 1.71:LAR-13508-1	c 35	N88-23962 *	NAS 1.71:LEW-13837-2	c 24	N85-21267 *	#
INT-PATENT-CLASS-H01L-29/48	c 33	N92-16197 *	NAS 1.71:LAR-13519-1	c 35	N88-23963 *	NAS 1.71:LEW-13881-1	c 20	N85-21256 *	#
INT-PATENT-CLASS-H01L-31/18	c 44	N91-27614 *	NAS 1.71:LAR-13548-1	c 09	N91-28175 *	NAS 1.71:LEW-14080-1	c 31	N85-20153 *	#
INT-PATENT-CLASS-H01L-31/42	c 44	N91-27614 *	NAS 1.71:LAR-13555-1	c 23	N86-32526 *	NAS 1.71:LEW-14127-1	c 33	N86-20680 *	#
INT-PATENT-CLASS-H01L-37/00	c 44	N92-16457 *	NAS 1.71:LAR-13563-1	c 34	N91-23410 *	NAS 1.71:LEW-14162-1	c 34	N91-13668 *	#
INT-PATENT-CLASS-H01L-39/22	c 76	N92-22041 *	NAS 1.71:LAR-13586-1	c 16	N92-10035 *	NAS 1.71:LEW-14162-2	c 24	N91-25201 *	#
INT-PATENT-CLASS-H01L-41/08	c 71	N91-14808 *	NAS 1.71:LAR-13632-1	c 26	N87-29650 *	NAS 1.71:LEW-14345-6	c 23	N92-17882 *	#
INT-PATENT-CLASS-H01L-41/08	c 76	N91-14872 *	NAS 1.71:LAR-13633-1	c 27	N87-24575 *	NAS 1.71:LEW-14474-1	c 27	N91-28423 *	#
INT-PATENT-CLASS-H01L-43/00	c 33	N91-14537 *	NAS 1.71:LAR-13645-1	c 27	N91-28424 *	NAS 1.71:LEW-14474-2	c 27	N92-11186 *	#
INT-PATENT-CLASS-H01M-4/04	c 33	N91-27478 *	NAS 1.71:LAR-13689-1	c 35	N87-23941 *	NAS 1.71:LEW-14676-2	c 76	N90-17454 *	#
INT-PATENT-CLASS-H01M-4/58	c 33	N91-27478 *	NAS 1.71:LAR-13705-1	c 39	N88-25011 *	NAS 1.71:LEW-14731-1	c 44	N91-13802 *	#
INT-PATENT-CLASS-H01M-6/20	c 33	N91-14538 *	NAS 1.71:LAR-13719-1	c 37	N89-12867 *	NAS 1.71:LEW-14734-1	c 24	N89-23623 *	#
INT-PATENT-CLASS-H01N-1/26	c 34	N92-16243 *	NAS 1.71:LAR-13738-1	c 18	N87-29586 *	NAS 1.71:LEW-14878-1	c 74	N91-13996 *	#
INT-PATENT-CLASS-H01N-17/00	c 34	N92-16243 *	NAS 1.71:LAR-13742-1	c 02	N91-16999 *	NAS 1.71:LEW-14880-1	c 35	N90-10415 *	#
INT-PATENT-CLASS-H01S-3/098	c 36	N91-17360 *	NAS 1.71:LAR-13772-1	c 36	N89-28816 *	NAS 1.71:LEW-14921-1	c 24	N91-13502 *	#
INT-PATENT-CLASS-H01S-3/16	c 36	N91-15528 *	NAS 1.71:LAR-13780-1	c 18	N91-13481 *	NAS 1.71:LEW-14945-1	c 32	N91-13598 *	#
INT-PATENT-CLASS-H01S-3/22	c 25	N91-21270 *	NAS 1.71:LAR-13823-1	c 35	N92-10182 *	NAS 1.71:LEW-14949-1	c 44	N91-23617 *	#
INT-PATENT-CLASS-H02K-41/00	c 37	N91-21539 *	NAS 1.71:LAR-13832-1	c 28	N91-28444 *	NAS 1.71:LEW-14965-1	c 37	N91-13732 *	#
INT-PATENT-CLASS-H02K-44/10	c 27	N91-14489 *	NAS 1.71:LAR-13870-1	c 05	N90-15094 *	NAS 1.71:LEW-14967-2	c 35	N91-23460 *	#
INT-PATENT-CLASS-H02K-7/09	c 70	N91-21824 *	NAS 1.71:LAR-13889-1	c 39	N88-30160 *	NAS 1.71:LEW-14973-1	c 44	N92-10222 *	#
INT-PATENT-CLASS-H02L-9/04	c 60	N90-25583 *	NAS 1.71:LAR-13925-1	c 27	N89-25334 *	NAS 1.71:LEW-14999-1	c 24	N91-13500 *	#
INT-PATENT-CLASS-H02N-1/08	c 33	N92-22042 *	NAS 1.71:LAR-13944-1	c 35	N92-11336 *	NAS 1.71:LEW-14999-2	c 27	N91-26376 *	#
INT-PATENT-CLASS-H03B-5/12	c 33	N90-23635 *	NAS 1.71:LAR-13988-1	c 23	N89-11814 *	NAS 1.71:LEW-15020-1	c 27	N91-15412 *	#
INT-PATENT-CLASS-H03D-1/00	c 33	N91-14550 *	NAS 1.71:LAR-13996-1-SB	c 25	N90-15161 *	NAS 1.71:LEW-15020-2	c 24	N91-25202 *	#
INT-PATENT-CLASS-H03D-1/04	c 33	N91-26438 *	NAS 1.71:LAR-14001-1	c 27	N90-15260 *	NAS 1.71:LEW-15027-1	c 27	N91-13566 *	#
INT-PATENT-CLASS-H03D-1/06	c 32	N92-21712 *	NAS 1.71:LAR-14033-1	c 34	N90-27072 *	NAS 1.71:LEW-15043-1	c 27	N91-32230 *	#
INT-PATENT-CLASS-H03M-13/00	c 60	N91-31810 *	NAS 1.71:LAR-14036-1	c 27	N91-13562 *	NAS 1.71:LEW-15077-2	c 24	N91-28289 *	#
INT-PATENT-CLASS-H04B-1/10	c 32	N91-25316 *	NAS 1.71:LAR-14046-1	c 31	N92-11219 *	NAS 1.71:LEW-15094-1	c 07	N91-23180 *	#
INT-PATENT-CLASS-H04B-10/00	c 74	N91-27957 *	NAS 1.71:LAR-14048-1	c 31	N92-11220 *	NAS 1.71:LEW-15155-1	c 27	N91-26375 *	#
INT-PATENT-CLASS-H04J-3/02	c 62	N91-14772 *	NAS 1.71:LAR-14049-1	c 07	N89-23466 *	NAS 1.71:LEW-15164-1	c 27	N91-25298 *	#
INT-PATENT-CLASS-H04K-3/00	c 33	N91-31530 *	NAS 1.71:LAR-14062-1	c 37	N90-27114 *	NAS 1.71:LEW-15164-2	c 27	N91-32229 *	#
INT-PATENT-CLASS-H04L-27/18	c 32	N91-14523 *	NAS 1.71:LAR-14078-1-CU	c 34	N90-27071 *	NAS 1.71:LEW-15196-1	c 37	N91-26543 *	#
INT-PATENT-CLASS-H04L-27/18	c 32	N91-25318 *	NAS 1.71:LAR-14088-1	c 35	N91-13686 *	NAS 1.71:LEW-15200-1	c 20	N91-32167 *	#
INT-PATENT-CLASS-H04L-27/22	c 32	N91-27439 *	NAS 1.71:LAR-14142-1	c 37	N90-27116 *	NAS 1.71:LEW-15216-1	c 37	N92-17678 *	#
INT-PATENT-CLASS-H04N-13/00	c 74	N92-16809 *	NAS 1.71:LAR-14145-1	c 27	N90-26954 *	NAS 1.71:LEW-15222-1	c 76	N91-26966 *	#
INT-PATENT-CLASS-H04N-5/262	c 60	N92-16563 *	NAS 1.71:LAR-14156-1	c 16	N90-16781 *	NAS 1.71:LEW-15223-1	c 76	N91-26967 *	#
INT-PATENT-CLASS-H04N-7/13	c 32	N92-10128 *	NAS 1.71:LAR-14159-1-CU	c 27	N90-26953 *	NAS 1.71:LEW-15235-1	c 34	N92-10167 *	#
INT-PATENT-CLASS-H04N-7/18	c 35	N90-22770 *	NAS 1.71:LAR-14162-1	c 27	N90-15259 *	NAS 1.71:LEW-15241-1	c 24	N92-17861 *	#
INT-PATENT-CLASS-H04R-15/00	c 33	N92-15331 *	NAS 1.71:LAR-14163-1	c 27	N91-13559 *	NAS 1.71:LEW-15359-1	c 25	N92-17902 *	#
INT-PATENT-CLASS-H04R-25/00	c 35	N91-27522 *	NAS 1.71:LAR-14168-1	c 39	N92-12302 *	NAS 1.71:MFS-25302-2	c 33	N84-33660 *	#
INT-PATENT-CLASS-H05B-33/00	c 74	N91-14835 *	NAS 1.71:LAR-14169-1	c 37	N92-17677 *	NAS 1.71:MFS-25637-1	c 44	N85-21769 *	#
INT-PATENT-CLASS-H05B-33/14	c 76	N91-21911 *	NAS 1.71:LAR-14194-1	c 24	N90-15148 *	NAS 1.71:MFS-25717-1	c 35	N84-33768 *	#
INT-PATENT-CLASS-H05B-33/14	c 74	N91-31950 *	NAS 1.71:LAR-14198-1	c 27	N90-26956 *	NAS 1.71:MFS-25721-1	c 25	N85-21280 *	#
INT-PATENT-CLASS-H07M-10/39	c 33	N91-14536 *	NAS 1.71:LAR-14203-1	c 36	N89-28817 *	NAS 1.71:MFS-25852-1	c 33	N84-33661 *	#
INT-PATENT-CLASS-H07M-4/60	c 33	N91-14536 *	NAS 1.71:LAR-14206-1	c 27	N91-28425 *	NAS 1.71:MFS-25861-1	c 33	N85-22877 *	#
			NAS 1.71:LAR-14239-1	c 26	N91-13527 *	NAS 1.71:MFS-25862-1	c 27	N85-20126 *	#
NAS 1.15:76884	c 24	N85-25436 *	NAS 1.71:LAR-14271-1-CU	c 27	N91-13558 *	NAS 1.71:MFS-25862-2	c 37	N84-33807 *	#
NAS 1.71:ARC-11349-1	c 37	N86-20797 *	NAS 1.71:LAR-14272-1-CU	c 14	N91-28184 *	NAS 1.71:MFS-26002-1-CU	c 35	N86-26598 *	#
NAS 1.71:ARC-11368-2	c 07	N85-21347 *	NAS 1.71:LAR-14330-1-CU	c 27	N91-13560 *	NAS 1.71:MFS-26049-1-NP	c 25	N89-28603 *	#
NAS 1.71:ARC-11423-1	c 23	N84-33394 *	NAS 1.71:LAR-14338-1	c 24	N90-26881 *	NAS 1.71:MFS-26061-1	c 76	N91-16815 *	#
NAS 1.71:ARC-11510-1	c 35	N86-32697 *	NAS 1.71:LAR-14339-1	c 27	N90-26955 *	NAS 1.71:MFS-26083-1-CU	c 26	N90-26940 *	#
NAS 1.71:ARC-11641-1	c 24	N88-18628 *	NAS 1.71:LAR-14340-1-CU	c 35	N91-13684 *	NAS 1.71:MFS-26102-1-CU	c 47	N91-15661 *	#
NAS 1.71:ARC-11652-1	c 27	N87-23737 *	NAS 1.71:LAR-14351-1	c 27	N91-13561 *	NAS 1.71:MFS-28008-1	c 35	N85-20300 *	#
NAS 1.71:ARC-11917-1	c 35	N91-15520 *	NAS 1.71:LAR-14352-1	c 37	N91-32511 *	NAS 1.71:MFS-28013-1	c 89	N86-22459 *	#
NAS 1.71:ARC-11921-1	c 34	N92-11286 *	NAS 1.71:LAR-14361-1	c 71	N91-16707 *	NAS 1.71:MFS-28013-2	c 89	N91-14096 *	#
NAS 1.71:GSC-12558-1	c 36	N85-21639 *	NAS 1.71:LAR-14395-1-CU	c 33	N91-28490 *	NAS 1.71:MFS-28013-3	c 89	N90-27594 *	#
NAS 1.71:GSC-12582-2	c 37	N85-20337 *	NAS 1.71:LAR-14402-1-CU	c 74	N91-15874 *	NAS 1.71:MFS-28013-4	c 89	N90-27595 *	#
NAS 1.71:GSC-12682-1	c 35	N84-33765 *	NAS 1.71:LAR-14424-1-SB	c 09	N91-32149 *	NAS 1.71:MFS-28139-1	c 29	N87-18679 *	#
NAS 1.71:GSC-12789-1	c 35	N85-20294 *	NAS 1.71:LAR-14427-1	c 23	N91-23237 *	NAS 1.71:MFS-28153-1	c 31	N86-32589 *	#
NAS 1.71:GSC-12799-1	c 31	N85-21404 *	NAS 1.71:LAR-14435-1-CU	c 09	N91-26159 *	NAS 1.71:MFS-28161-1	c 37	N87-18817 *	#
NAS 1.71:GSC-12808-1	c 25	N85-21279 *	NAS 1.71:LAR-14440-1	c 23	N92-10066 *	NAS 1.71:MFS-28183-1	c 74	N89-13253 *	#
NAS 1.71:GSC-12944-1	c 52	N86-19885 *	NAS 1.71:LAR-14446-1	c 31	N91-28454 *	NAS 1.71:MFS-28248-1	c 31	N88-24817 *	#
NAS 1.71:GSC-13175-1	c 74	N91-14001 *	NAS 1.71:LAR-14457-1-CU	c 27	N92-11198 *	NAS 1.71:MFS-28273-1	c 37	N88-23974 *	#
NAS 1.71:GSC-13220-1	c 37	N91-21525 *	NAS 1.71:LAR-14459-1	c 24	N91-15334 *	NAS 1.71:MFS-28282-1	c 76	N88-29602 *	#
NAS 1.71:GSC-13230-1	c 37	N91-13734 *	NAS 1.71:LAR-14480-1-CU	c 39	N92-11374 *	NAS 1.71:MFS-28287-1	c 35	N88-23959 *	#
NAS 1.71:GSC-13251-1	c 37	N91-28582 *	NAS 1.71:LAR-14483-1	c 31	N91-28455 *	NAS 1.71:MFS-28295-1	c 74	N91-13999 *	#
NAS 1.71:GSC-13261-1	c 37	N91-17401 *	NAS 1.71:LAR-14487-1	c 27	N92-11200 *	NAS 1.71:MFS-28327-1	c 18	N89-28556 *	#
NAS 1.71:GSC-13265-1	c 76	N91-14066 *	NAS 1.71:LAR-14508-1-CU	c 39	N92-10202 *	NAS 1.71:MFS-28328-1	c 37	N91-13731 *	#
NAS 1.71:GSC-13306-1	c 52	N91-28727 *	NAS 1.71:LAR-14515-1-CU	c 37	N91-28580 *	NAS 1.71:MFS-28345-2	c 37	N89-28842 *	#
NAS 1.71:GSC-13343-1	c 36	N91-28557 *	NAS 1.71:LAR-14520-1-SB	c 02	N92-10008 *	NAS 1.71:MFS-28368-1	c 75	N90-10717 *	#
NAS 1.71:GSC-13344-1	c 26	N91-28363 *	NAS 1.71:LAR-14538-1	c 27	N92-11201 *	NAS 1.71:MFS-28370-1	c 35	N89-28793 *	#
NAS 1.71:GSC-13346-1	c 37	N91-28578 *	NAS 1.71:LAR-14542-1						

REPORT NUMBER INDEX

NASA-CASE-ARC-10754-1

NAS 1.71:MFS-28458-1	c 33	N91-26459 *	NAS 1.71:NPO-16233-1	c 37	N86-20801 *	NASA-CASE-ARC-10042-2	c 10	N72-11256 *
NAS 1.71:MFS-28473-1	c 76	N91-26968 *	NAS 1.71:NPO-16420-1	c 33	N86-20681 *	NASA-CASE-ARC-10043-1	c 05	N71-11193 *
NAS 1.71:MFS-28485-1	c 35	N91-15519 *	NAS 1.71:NPO-16464-1CU	c 60	N86-24224 *	NASA-CASE-ARC-10050	c 03	N71-33409 *
NAS 1.71:MFS-28493-1	c 09	N91-25155 *	NAS 1.71:NPO-16494-1-CU	c 34	N85-29182 *	NASA-CASE-ARC-10097-2	c 07	N73-25160 *
NAS 1.71:MFS-28507-1	c 76	N91-23933 *	NAS 1.71:NPO-16584-1-CU	c 76	N86-25269 *	NASA-CASE-ARC-10098-1	c 06	N71-24739 *
NAS 1.71:MFS-28521-1	c 37	N91-26542 *	NAS 1.71:NPO-16632-1-CU	c 32	N87-15390 *	NASA-CASE-ARC-10099-1	c 18	N71-15469 *
NAS 1.71:MFS-28524-1	c 18	N91-25167 *	NAS 1.71:NPO-16784-1	c 33	N87-10231 *	NASA-CASE-ARC-10100-1	c 05	N71-24738 *
NAS 1.71:MFS-28545-1	c 31	N91-25306 *	NAS 1.71:NPO-16869	c 74	N86-33138 *	NASA-CASE-ARC-10101-1	c 09	N71-33109 *
NAS 1.71:MFS-28563-1	c 35	N91-25388 *	NAS 1.71:NPO-16882-1-CU	c 33	N88-24863 *	NASA-CASE-ARC-10105	c 09	N72-17153 *
NAS 1.71:MFS-28589-1	c 37	N92-17584 *	NAS 1.71:NPO-16892-1-CU	c 37	N87-14704 *	NASA-CASE-ARC-10106-1	c 28	N72-22769 *
NAS 1.71:MFS-28633-1	c 54	N92-17866 *	NAS 1.71:NPO-16932-1	c 33	N87-15413 *	NASA-CASE-ARC-10131-1	c 15	N71-27754 *
NAS 1.71:MFS-29291-1	c 37	N89-12868 *	NAS 1.71:NPO-17024-1-CU	c 35	N88-24943 *	NASA-CASE-ARC-10132-1	c 09	N71-24597 *
NAS 1.71:MFS-29576-1	c 25	N91-15368 *	NAS 1.71:NPO-17139-1-CU	c 74	N88-25301 *	NASA-CASE-ARC-10134	c 30	N72-17873 *
NAS 1.71:MFS-29766-1	c 33	N91-25335 *	NAS 1.71:NPO-17144-1-CU	c 74	N88-25305 *	NASA-CASE-ARC-10136-1	c 09	N72-22202 *
NAS 1.71:MSC-18578-1	c 32	N85-21427 *	NAS 1.71:NPO-17184-1-CU	c 32	N88-26541 *	NASA-CASE-ARC-10137-1	c 09	N71-28468 *
NAS 1.71:MSC-20112-1	c 37	N85-20338 *	NAS 1.71:NPO-17207-1-CU	c 74	N88-25304 *	NASA-CASE-ARC-10138-1	c 14	N72-24477 *
NAS 1.71:MSC-20275-1	c 35	N85-21595 *	NAS 1.71:NPO-17233-1-CU	c 33	N88-29095 *	NASA-CASE-ARC-10140-1	c 15	N71-17653 *
NAS 1.71:MSC-20319-1	c 37	N85-21649 *	NAS 1.71:NPO-17275-1-CU	c 37	N89-29750 *	NASA-CASE-ARC-10153	c 05	N71-28619 *
NAS 1.71:MSC-20761-1	c 37	N87-15465 *	NAS 1.71:NPO-17291-1-CU	c 34	N88-23946 *	NASA-CASE-ARC-10154-1	c 14	N72-22440 *
NAS 1.71:MSC-20783-1	c 35	N86-20756 *	NAS 1.71:NPO-17310-1-CU	c 17	N88-28946 *	NASA-CASE-ARC-10160-1	c 23	N72-27728 *
NAS 1.71:MSC-20865-1	c 32	N87-18692 *	NAS 1.71:NPO-17334-1-CU	c 31	N88-23917 *	NASA-CASE-ARC-10176-1	c 15	N72-21464 *
NAS 1.71:MSC-20907-1	c 37	N87-18818 *	NAS 1.71:NPO-17393-1-CU	c 33	N89-29679 *	NASA-CASE-ARC-10178-1	c 09	N72-17152 *
NAS 1.71:MSC-20964-1	c 60	N87-14863 *	NAS 1.71:NPO-17399-1-CU	c 76	N89-14120 *	NASA-CASE-ARC-10179-1	c 21	N72-22619 *
NAS 1.71:MSC-21082-1	c 27	N87-29672 *	NAS 1.71:NPO-17479-1-CU	c 34	N91-13658 *	NASA-CASE-ARC-10180-1	c 27	N74-12814 *
NAS 1.71:MSC-21094-1	c 35	N88-24941 *	NAS 1.71:NPO-17524-1-CU	c 27	N90-10261 *	NASA-CASE-ARC-10192	c 09	N72-21245 *
NAS 1.71:MSC-21095-1	c 37	N89-12866 *	NAS 1.71:NPO-17548-1-CU	c 32	N90-16104 *	NASA-CASE-ARC-10194-1	c 23	N73-20741 *
NAS 1.71:MSC-21171-1	c 37	N88-23973 *	NAS 1.71:NPO-17564-1-CU	c 32	N90-16974 *	NASA-CASE-ARC-10196-1	c 18	N73-13562 *
NAS 1.71:MSC-21299-1	c 20	N88-24684 *	NAS 1.71:NPO-17596-1-CU	c 35	N89-28795 *	NASA-CASE-ARC-10197-1	c 33	N74-17929 *
NAS 1.71:MSC-21327-1	c 18	N90-11798 *	NAS 1.71:NPO-17621-1-CU	c 33	N90-17010 *	NASA-CASE-ARC-10198	c 34	N78-17336 *
NAS 1.71:MSC-21330-1	c 16	N88-24660 *	NAS 1.71:NPO-17625-1-CU	c 34	N90-20770 *	NASA-CASE-ARC-10199	c 34	N78-17337 *
NAS 1.71:MSC-21354-1	c 37	N88-24969 *	NAS 1.71:NPO-17628-1-CU	c 32	N89-28684 *	NASA-CASE-ARC-10263-1	c 14	N72-22438 *
NAS 1.71:MSC-21364-1	c 54	N89-13889 *	NAS 1.71:NPO-17629-1-CU	c 60	N90-27268 *	NASA-CASE-ARC-10264-1	c 09	N73-20231 *
NAS 1.71:MSC-21372-1	c 35	N89-12842 *	NAS 1.71:NPO-17630-1-CU	c 31	N89-29577 *	NASA-CASE-ARC-10265-1	c 10	N72-28240 *
NAS 1.71:MSC-21379-1	SB c 61	N90-27340 *	NAS 1.71:NPO-17632-1-CU	c 60	N91-32805 *	NASA-CASE-ARC-10266-1	c 33	N75-29318 *
NAS 1.71:MSC-21381-1	c 63	N91-13944 *	NAS 1.71:NPO-17653-1-CU	c 51	N90-27239 *	NASA-CASE-ARC-10269-1	c 10	N72-16172 *
NAS 1.71:MSC-21387-1	c 61	N90-16411 *	NAS 1.71:NPO-17723-1-CU	c 76	N90-26685 *	NASA-CASE-ARC-10275-1	c 05	N72-22092 *
NAS 1.71:MSC-21415-1	SB c 61	N92-17860 *	NAS 1.71:NPO-17724-1-CU	c 76	N90-27517 *	NASA-CASE-ARC-10278-1	c 14	N73-25463 *
NAS 1.71:MSC-21460-1	c 54	N91-13879 *	NAS 1.71:NPO-17734-1-CU	c 33	N92-10146 *	NASA-CASE-ARC-10302-1	c 51	N74-15778 *
NAS 1.71:MSC-21463-1	c 37	N91-23490 *	NAS 1.71:NPO-17759-1-CU	c 32	N92-10125 *	NASA-CASE-ARC-10304-1	c 18	N73-26572 *
NAS 1.71:MSC-21481-1	c 60	N91-13890 *	NAS 1.71:NPO-17763-1-CU	c 36	N92-17862 *	NASA-CASE-ARC-10304-2	c 27	N74-27037 *
NAS 1.71:MSC-21487-1	c 25	N90-16887 *	NAS 1.71:NPO-17781-1-CU	c 60	N92-17884 *	NASA-CASE-ARC-10308-1	c 06	N72-31141 *
NAS 1.71:MSC-21517-1	c 37	N91-24577 *	NAS 1.71:NPO-17784-1-CU	c 74	N91-13998 *	NASA-CASE-ARC-10322-1	c 35	N76-18403 *
NAS 1.71:MSC-21536-1	c 18	N91-13483 *	NAS 1.71:NPO-17785-1-CU	c 37	N89-28846 *	NASA-CASE-ARC-10325	c 06	N72-25147 *
NAS 1.71:MSC-21536-1	c 18	N92-21999 *	NAS 1.71:NPO-17786-1-CU	c 35	N90-17104 *	NASA-CASE-ARC-10329-1	c 05	N73-26072 *
NAS 1.71:MSC-21555-1	c 37	N91-23492 *	NAS 1.71:NPO-17800-1-CU	c 37	N91-13724 *	NASA-CASE-ARC-10330-1	c 09	N73-32112 *
NAS 1.71:MSC-21559-1	c 51	N91-13860 *	NAS 1.71:NPO-17803-1-CU	c 62	N90-27385 *	NASA-CASE-ARC-10344-2	c 35	N75-26334 *
NAS 1.71:MSC-21560-1	c 51	N90-18852 *	NAS 1.71:NPO-17812-1-CU	c 76	N90-17456 *	NASA-CASE-ARC-10345-1	c 15	N73-12488 *
NAS 1.71:MSC-21577-1	SB c 25	N91-23271 *	NAS 1.71:NPO-17835-1-CU	c 76	N90-27518 *	NASA-CASE-ARC-10348-1	c 33	N75-19518 *
NAS 1.71:MSC-21580-1	c 37	N91-23491 *	NAS 1.71:NPO-17836-1-CU	c 32	N92-10126 *	NASA-CASE-ARC-10362-1	c 14	N73-32326 *
NAS 1.71:MSC-21584-1	c 25	N91-24362 *	NAS 1.71:NPO-17845-1-CU	c 61	N90-27341 *	NASA-CASE-ARC-10364-2	c 33	N75-25041 *
NAS 1.71:MSC-21589-1	c 54	N91-16566 *	NAS 1.71:NPO-17852-1-CU	c 63	N91-23783 *	NASA-CASE-ARC-10364-3	c 33	N75-19520 *
NAS 1.71:MSC-21613-1	c 61	N92-10331 *	NAS 1.71:NPO-17858-1-CU	c 24	N90-26880 *	NASA-CASE-ARC-10370-1	c 36	N75-31426 *
NAS 1.71:MSC-21625-1	c 53	N91-28730 *	NAS 1.71:NPO-17897-1-CU	c 33	N90-27040 *	NASA-CASE-ARC-10441-1	c 35	N74-15126 *
NAS 1.71:MSC-21631-1	c 75	N91-32947 *	NAS 1.71:NPO-17904-1-CU	c 32	N91-13594 *	NASA-CASE-ARC-10442-1	c 35	N74-15093 *
NAS 1.71:MSC-21662-1	c 51	N91-17531 *	NAS 1.71:NPO-17911-1-CU	c 32	N90-27016 *	NASA-CASE-ARC-10443-1	c 14	N73-25477 *
NAS 1.71:MSC-21675-1	c 52	N91-13865 *	NAS 1.71:NPO-17913-1-CU	c 74	N90-27488 *	NASA-CASE-ARC-10444-1	c 16	N73-33397 *
NAS 1.71:MSC-21700-1	c 35	N91-23462 *	NAS 1.71:NPO-17914-1-CU	c 39	N91-13767 *	NASA-CASE-ARC-10445-1	c 31	N76-31365 *
NAS 1.71:MSC-21730-1	c 37	N91-23493 *	NAS 1.71:NPO-17918-2-CU	c 63	N92-17895 *	NASA-CASE-ARC-10447-1	c 52	N74-22771 *
NAS 1.71:MSC-21737-1	c 61	N91-13911 *	NAS 1.71:NPO-17922-1-CU	c 33	N91-13621 *	NASA-CASE-ARC-10448-2	c 74	N75-12732 *
NAS 1.71:MSC-21748-1	c 37	N91-25415 *	NAS 1.71:NPO-17939-1-CU	c 60	N90-26518 *	NASA-CASE-ARC-10448-3	c 35	N77-14408 *
NAS 1.71:MSC-21752-1	c 54	N92-17910 *	NAS 1.71:NPO-17941-1-CU	c 32	N91-13595 *	NASA-CASE-ARC-10456-1	c 05	N75-12930 *
NAS 1.71:MSC-21759-1	c 25	N92-12079 *	NAS 1.71:NPO-17954-1-CU	c 60	N90-26519 *	NASA-CASE-ARC-10461-1	c 44	N74-33379 *
NAS 1.71:MSC-21763-1	c 51	N91-25570 *	NAS 1.71:NPO-17970-1-CU	c 43	N90-26384 *	NASA-CASE-ARC-10462-1	c 37	N74-27901 *
NAS 1.71:MSC-21775-1	c 52	N92-11627 *	NAS 1.71:NPO-17994-1-CU	c 33	N92-17907 *	NASA-CASE-ARC-10463-1	c 09	N73-32111 *
NAS 1.71:MSC-21776-1	c 31	N92-17913 *	NAS 1.71:NPO-17997-1-CU	c 60	N91-13888 *	NASA-CASE-ARC-10464-1	c 27	N74-12812 *
NAS 1.71:MSC-21793-1	c 16	N91-28186 *	NAS 1.71:NPO-17998-1-CU	c 60	N92-12438 *	NASA-CASE-ARC-10466-1	c 60	N75-13539 *
NAS 1.71:MSC-21799-1	c 37	N92-11359 *	NAS 1.71:NPO-18007-1-CU	c 74	N92-11791 *	NASA-CASE-ARC-10467-1	c 09	N73-14214 *
NAS 1.71:MSC-21806-1	c 74	N92-17863 *	NAS 1.71:NPO-18075-1-CU	c 33	N91-13622 *	NASA-CASE-ARC-10468-1	c 14	N73-33361 *
NAS 1.71:MSC-21858-1	c 52	N92-11628 *	NAS 1.71:NPO-18095-1-CU	c 74	N91-32923 *	NASA-CASE-ARC-10469-1	c 25	N75-12086 *
NAS 1.71:MSC-21868-1	c 54	N92-11639 *	NAS 1.71:NPO-18098-1-CU	c 74	N91-32890 *	NASA-CASE-ARC-10470-1	c 02	N73-26005 *
NAS 1.71:MSC-21898-1	c 37	N92-17872 *	NAS 1.71:NPO-18115-1-CU	c 47	N91-32662 *	NASA-CASE-ARC-10470-3	c 05	N76-29217 *
NAS 1.71:MSC-21936-1	c 25	N92-19486 *	NAS 1.71:NPO-18116-1-CU	c 37	N91-32509 *	NASA-CASE-ARC-10516-1	c 70	N74-21300 *
NAS 1.71:NPO-13556-1	c 35	N84-33766 *	NAS 1.71:NPO-18134-1-CU	c 37	N91-32510 *	NASA-CASE-ARC-10519-2	c 05	N75-25915 *
NAS 1.71:NPO-15155-1	c 74	N85-22139 *	NAS 1.71:NPO-18146-1-CU	c 74	N92-17892 *	NASA-CASE-ARC-10583-1	c 52	N76-29894 *
NAS 1.71:NPO-15295-1	c 60	N85-21992 *	NAS 1.71:NPO-18155-1-CU	c 71	N92-10609 *	NASA-CASE-ARC-10592-1	c 27	N74-21156 *
NAS 1.71:NPO-15341-1	c 35	N84-33769 *	NAS 1.71:NPO-18194-1-CU	c 74	N91-32924 *	NASA-CASE-ARC-10592-2	c 27	N76-32315 *
NAS 1.71:NPO-15430-1	c 46	N85-21846 *	NAS 1.71:NPO-18243-1-CU	c 36	N91-32489 *	NASA-CASE-ARC-10593-1	c 33	N74-27682 *
NAS 1.71:NPO-15433-1	c 32	N85-21428 *	NAS 1.71:NPO-18278-1-CU	c 74	N91-32925 *	NASA-CASE-ARC-10596-1	c 33	N74-21851 *
NAS 1.71:NPO-15466-1	c 71	N85-22104 *	NAS 1.71:NPO-18317-1-CU	c 74	N91-32926 *	NASA-CASE-ARC-10597-1	c 52	N74-20726 *
NAS 1.71:NPO-15483-1	c 37	N85-21650 *	NAS 1.71:NPO-18366-1-CU	c 31	N92-17674 *	NASA-CASE-ARC-10598-1	c 75	N74-30158 *
NAS 1.71:NPO-15493-2	c 35	N85-34373 *	NAS 1.71:NPO-18379-1-CU	c 74	N92-17675 *	NASA-CASE-ARC-10599-1	c 05	N73-26071 *
NAS 1.71:NPO-15494-2	c 35	N85-34373 *	NAS 1.71:NPO-18386-1-CU	c 36	N92-17899 *	NASA-CASE-ARC-10631-1	c 74	N76-20958 *
NAS 1.71:NPO-15519-1	c 32	N84-34651 *	NAS 1.71:NPO-18454-1-CU	c 33	N92-17865 *	NASA-CASE-ARC-10633-1	c 25	N74-26947 *
NAS 1.71:NPO-15558-1	c 35	N84-34705 *	NAS 1.71:NPO-18593-1-CU	c 74	N92-17864 *	NASA-CASE-ARC-10637-1	c 35	N75-16783 *
NAS 1.71:NPO-15560-1	c 33	N85-21491 *	NAS 1.71:SSC-00008-1	c 35	N91-13691 *	NASA-CASE-ARC-10639-1	c 35	N78-13400 *
NAS 1.71:NPO-15644-1	c 35	N84-33767 *	NAS 1.71:SSC-00008-1	c 37	N91-13733 *	NASA-CASE-ARC-10642-1	c 36	N76-14447 *
NAS 1.71:NPO-15651-1	c 43	N85-21723 *	NAS 1.71:SSC-00010-1	c 82	N91-23976 *	NASA-CASE-ARC-10643-1	c 25	N75-12087 *
NAS 1.71:NPO-15753-1	c 27	N84-33589 *	NAS 1.71:SSC-00013-1	c 38	N91-32515 *	NASA-CASE-ARC-10710-1	c 09	N75-12969 *
NAS 1.71:NPO-15759-1	c 35	N85-21596 *	NAS 1.71:WLP-10055-2	c 35	N85-21598 *	NASA-CASE-ARC-10711-2	c 33	N76-21390 *
NAS 1.71:NPO-15790-1	c 36	N85-21631 *	NAS 1.71:14846-2	c 20	N91-26200 *	NASA-CASE-ARC-10712-1	c 07	N74-33218 *
NAS 1.71:NPO-15801-1	c 74	N85-23396 *				NASA-CASE-ARC-10714-1	c 27	N76-15310 *
NAS 1.71:NPO-15808-1	c 44	N84-34792 *	NASA-CASE-ARC-10003-1	c 09	N71-25866 *	NASA-CASE-ARC-10716-1	c 35	N77-20399 *
NAS 1.71:NPO-15851-1	c 37	N85-21652 *	NASA-CASE-ARC-10009-1	c 15	N71-17822 *	NASA-CASE-ARC-10721-1	c 27	N76-22376 *
NAS 1.71:NPO-15920-1	c 33	N85-21493 *	NASA-CASE-ARC-10017-1	c 14	N72-29464 *	NASA-CASE-ARC-10722-1	c 51	N75-25503 *
NAS 1.71:NPO-16022-1	c 71	N85-22105 *						

NASA-CASE-ARC-10755-2

REPORT NUMBER INDEX

NASA-CASE-ARC-10755-2	c 34	N76-27517 *	NASA-CASE-ARC-11248-1	c 27	N81-17259 *	NASA-CASE-ARC-11873-2	c 25	N91-31258 *
NASA-CASE-ARC-10756-1	c 54	N77-32721 *	NASA-CASE-ARC-11251-1	c 37	N81-17433 *	NASA-CASE-ARC-11876-1	c 36	N90-25340 *
NASA-CASE-ARC-10760-1	c 25	N76-22323 *	NASA-CASE-ARC-11252-1	c 25	N83-36118 *	NASA-CASE-ARC-11877-1-SB	c 09	N91-14357 *
NASA-CASE-ARC-10761-1	c 07	N77-18154 *	NASA-CASE-ARC-11253-1	c 27	N81-17262 *	NASA-CASE-ARC-11886-1-SB	c 35	N91-14591 *
NASA-CASE-ARC-10802-1	c 35	N75-30502 *	NASA-CASE-ARC-11253-2	c 27	N82-24338 *	NASA-CASE-ARC-11888-1	c 24	N92-16026 *
NASA-CASE-ARC-10806-1	c 35	N75-29381 *	NASA-CASE-ARC-11253-3	c 27	N81-24256 *	NASA-CASE-ARC-11892-1-SB	c 74	N92-16810 *
NASA-CASE-ARC-10807-1	c 05	N77-17029 *	NASA-CASE-ARC-11256-1	c 15	N82-24272 *	NASA-CASE-ARC-11909-1	c 03	N91-31113 *
NASA-CASE-ARC-10808-1	c 09	N76-24280 *	NASA-CASE-ARC-11257-1	c 04	N81-21047 *	NASA-CASE-ARC-11916-1-SB	c 74	N92-16811 *
NASA-CASE-ARC-10810-1	c 33	N76-19339 *	NASA-CASE-ARC-11258-1	c 52	N80-33081 *	NASA-CASE-ARC-11917-1	c 35	N91-15520 *
NASA-CASE-ARC-10812-1	c 07	N83-33884 *	NASA-CASE-ARC-11261-1	c 24	N83-25789 *	NASA-CASE-ARC-11921-1	c 34	N92-11286 *
NASA-CASE-ARC-10813-1	c 27	N76-16230 *	NASA-CASE-ARC-11262-2	c 52	N83-29991 *	NASA-CASE-ARC-14408-1	c 27	N82-33523 *
NASA-CASE-ARC-10814-2	c 07	N80-26298 *	NASA-CASE-ARC-11267-2	c 23	N82-28353 *			
NASA-CASE-ARC-10816-1	c 35	N76-24525 *	NASA-CASE-ARC-11310-1	c 27	N82-24339 *	NASA-CASE-ERC-10001	c 23	N71-24868 *
NASA-CASE-ARC-10820-1	c 35	N78-19466 *	NASA-CASE-ARC-11311-1	c 74	N83-13978 *	NASA-CASE-ERC-10011	c 07	N71-29065 *
NASA-CASE-ARC-10849-1	c 17	N76-29347 *	NASA-CASE-ARC-11312-1	c 36	N83-34304 *	NASA-CASE-ERC-10013	c 09	N71-26678 *
NASA-CASE-ARC-10855-1	c 52	N77-10780 *	NASA-CASE-ARC-11314-1	c 54	N82-26987 *	NASA-CASE-ERC-10014	c 14	N71-28863 *
NASA-CASE-ARC-10892-2	c 27	N79-14214 *	NASA-CASE-ARC-11317-1	c 35	N83-34272 *	NASA-CASE-ERC-10015-2	c 10	N72-27246 *
NASA-CASE-ARC-10896-1	c 35	N78-19465 *	NASA-CASE-ARC-11321-1	c 27	N81-27272 *	NASA-CASE-ERC-10017	c 16	N71-15567 *
NASA-CASE-ARC-10897-1	c 33	N77-31404 *	NASA-CASE-ARC-11322-1	c 51	N80-38849 *	NASA-CASE-ERC-10019	c 16	N71-15551 *
NASA-CASE-ARC-10898-1	c 35	N77-18417 *	NASA-CASE-ARC-11325-1	c 37	N82-22496 *	NASA-CASE-ERC-10020	c 16	N71-26154 *
NASA-CASE-ARC-10899-1	c 60	N77-19760 *	NASA-CASE-ARC-11326-1	c 25	N83-33977 *	NASA-CASE-ERC-10022	c 15	N71-26635 *
NASA-CASE-ARC-10900-1	c 35	N77-24454 *	NASA-CASE-ARC-11349-1	c 37	N86-20797 *	NASA-CASE-ERC-10031	c 12	N71-18603 *
NASA-CASE-ARC-10903-1	c 09	N78-18083 *	NASA-CASE-ARC-11354-1	c 74	N83-21949 *	NASA-CASE-ERC-10032	c 10	N71-25900 *
NASA-CASE-ARC-10905-1	c 37	N77-13418 *	NASA-CASE-ARC-11359-1	c 51	N84-28361 *	NASA-CASE-ERC-10033	c 14	N71-26672 *
NASA-CASE-ARC-10907-1	c 37	N75-32465 *	NASA-CASE-ARC-11361-1	c 35	N84-22934 *	NASA-CASE-ERC-10034	c 15	N71-24896 *
NASA-CASE-ARC-10911-1	c 35	N77-20400 *	NASA-CASE-ARC-11363-1	c 31	N87-16918 *	NASA-CASE-ERC-10041	c 08	N71-29138 *
NASA-CASE-ARC-10912-1	c 34	N77-19353 *	NASA-CASE-ARC-11368-1	c 27	N83-31854 *	NASA-CASE-ERC-10044-1	c 14	N71-27090 *
NASA-CASE-ARC-10913-1	c 24	N78-15180 *	NASA-CASE-ARC-11368-2	c 27	N85-21347 *	NASA-CASE-ERC-10045	c 15	N71-24910 *
NASA-CASE-ARC-10915-2	c 27	N79-18052 *	NASA-CASE-ARC-11368-3	c 27	N84-22745 *	NASA-CASE-ERC-10046	c 10	N71-18722 *
NASA-CASE-ARC-10916-1	c 52	N78-10686 *	NASA-CASE-ARC-11370-1	c 27	N84-22750 *	NASA-CASE-ERC-10048	c 09	N72-25251 *
NASA-CASE-ARC-10917-1	c 51	N78-27733 *	NASA-CASE-ARC-11372-1	c 08	N86-27288 *	NASA-CASE-ERC-10065	c 09	N71-27364 *
NASA-CASE-ARC-10932-1	c 74	N76-22993 *	NASA-CASE-ARC-11400-1	c 27	N84-14322 *	NASA-CASE-ERC-10072	c 09	N70-11148 *
NASA-CASE-ARC-10970-1	c 36	N77-25501 *	NASA-CASE-ARC-11402-1	c 27	N84-22744 *	NASA-CASE-ERC-10073-1	c 24	N74-19769 *
NASA-CASE-ARC-10974-1	c 34	N77-27345 *	NASA-CASE-ARC-11402-3	c 23	N86-21582 *	NASA-CASE-ERC-10075-2	c 09	N72-22196 *
NASA-CASE-ARC-10975-1	c 33	N79-15245 *	NASA-CASE-ARC-11405-1	c 27	N84-27884 *	NASA-CASE-ERC-10075	c 09	N71-24800 *
NASA-CASE-ARC-10976-1	c 74	N77-22950 *	NASA-CASE-ARC-11405-2	c 27	N86-19455 *	NASA-CASE-ERC-10081	c 14	N72-28437 *
NASA-CASE-ARC-10977-1	c 07	N80-32392 *	NASA-CASE-ARC-11413-1	c 27	N85-21348 *	NASA-CASE-ERC-10087-2	c 14	N72-31446 *
NASA-CASE-ARC-10979-1	c 09	N77-19076 *	NASA-CASE-ARC-11418-1	c 24	N84-11213 *	NASA-CASE-ERC-10087	c 14	N71-27334 *
NASA-CASE-ARC-10980-1	c 27	N80-23452 *	NASA-CASE-ARC-11421-2	c 27	N86-31726 *	NASA-CASE-ERC-10088	c 26	N71-25490 *
NASA-CASE-ARC-10981-1	c 37	N78-27425 *	NASA-CASE-ARC-11421-3	c 24	N86-25416 *	NASA-CASE-ERC-10089	c 23	N72-17747 *
NASA-CASE-ARC-10984-1	c 32	N77-24328 *	NASA-CASE-ARC-11422-1	c 35	N86-20751 *	NASA-CASE-ERC-10090	c 21	N71-24948 *
NASA-CASE-ARC-10985-1	c 52	N79-10724 *	NASA-CASE-ARC-11423-1	c 03	N84-33394 *	NASA-CASE-ERC-10097	c 15	N71-28465 *
NASA-CASE-ARC-10990-1	c 04	N82-16059 *	NASA-CASE-ARC-11424-1	c 27	N85-34281 *	NASA-CASE-ERC-10098	c 09	N71-28618 *
NASA-CASE-ARC-10991-1	c 25	N78-14104 *	NASA-CASE-ARC-11425-2	c 23	N87-28605 *	NASA-CASE-ERC-10100	c 09	N71-33519 *
NASA-CASE-ARC-10992-1	c 26	N78-32229 *	NASA-CASE-ARC-11425-3	c 23	N90-23475 *	NASA-CASE-ERC-10108	c 06	N72-21094 *
NASA-CASE-ARC-10994-1	c 52	N76-33835 *	NASA-CASE-ARC-11425-4	c 23	N90-20133 *	NASA-CASE-ERC-10112	c 07	N72-21119 *
NASA-CASE-ARC-10994-2	c 52	N79-26771 *	NASA-CASE-ARC-11426-1	c 09	N84-12193 *	NASA-CASE-ERC-10113	c 09	N71-27053 *
NASA-CASE-ARC-11007-1	c 52	N77-14736 *	NASA-CASE-ARC-11426-2	c 52	N89-16256 *	NASA-CASE-ERC-10119	c 26	N72-21701 *
NASA-CASE-ARC-11008-1	c 27	N78-31232 *	NASA-CASE-ARC-11427-1	c 24	N86-19380 *	NASA-CASE-ERC-10120	c 26	N69-33482 *
NASA-CASE-ARC-11031-1	c 52	N81-29763 *	NASA-CASE-ARC-11427-2	c 27	N86-27451 *	NASA-CASE-ERC-10125	c 09	N71-24893 *
NASA-CASE-ARC-11035-1	c 52	N79-18580 *	NASA-CASE-ARC-11428-1	c 23	N86-19376 *	NASA-CASE-ERC-10138	c 26	N71-14354 *
NASA-CASE-ARC-11036-1	c 35	N78-32395 *	NASA-CASE-ARC-11428-3	c 23	N87-16909 *	NASA-CASE-ERC-10139	c 09	N72-17154 *
NASA-CASE-ARC-11039-1	c 74	N78-32854 *	NASA-CASE-ARC-11429-1-CU	c 27	N88-24692 *	NASA-CASE-ERC-10150	c 14	N71-28992 *
NASA-CASE-ARC-11040-1	c 24	N79-16915 *	NASA-CASE-ARC-11429-2-CU	c 27	N86-20560 *	NASA-CASE-ERC-10151	c 16	N71-29131 *
NASA-CASE-ARC-11040-2	c 24	N78-27184 *	NASA-CASE-ARC-11429-3-CU	c 27	N87-22845 *	NASA-CASE-ERC-10174	c 14	N72-25409 *
NASA-CASE-ARC-11042-1	c 24	N78-14096 *	NASA-CASE-ARC-11429-4-CU	c 27	N87-16908 *	NASA-CASE-ERC-10178	c 16	N71-24832 *
NASA-CASE-ARC-11043-1	c 24	N78-27180 *	NASA-CASE-ARC-11444-1	c 05	N87-15304 *	NASA-CASE-ERC-10179	c 07	N72-20141 *
NASA-CASE-ARC-11045-1	c 05	N79-17847 *	NASA-CASE-ARC-11502-1	c 74	N85-29947 *	NASA-CASE-ERC-10180-1	c 60	N74-20836 *
NASA-CASE-ARC-11046-1	c 35	N78-14364 *	NASA-CASE-ARC-11503-1	c 35	N86-20125 *	NASA-CASE-ERC-10187	c 16	N69-31343 *
NASA-CASE-ARC-11051-1	c 27	N78-32260 *	NASA-CASE-ARC-11504-1	c 09	N85-34374 *	NASA-CASE-ERC-10208	c 15	N70-10867 *
NASA-CASE-ARC-11052-1	c 37	N79-28551 *	NASA-CASE-ARC-11505-1	c 18	N86-32447 *	NASA-CASE-ERC-10214	c 09	N72-31235 *
NASA-CASE-ARC-11053-1	c 25	N79-10162 *	NASA-CASE-ARC-11505-2	c 18	N84-22612 *	NASA-CASE-ERC-10222	c 09	N72-22199 *
NASA-CASE-ARC-11057-1	c 27	N78-31233 *	NASA-CASE-ARC-11506-2	c 23	N89-25266 *	NASA-CASE-ERC-10224-2	c 09	N73-27150 *
NASA-CASE-ARC-11058-1	c 54	N78-31735 *	NASA-CASE-ARC-11510-1	c 35	N86-32525 *	NASA-CASE-ERC-10224	c 09	N72-25261 *
NASA-CASE-ARC-11058-2	c 54	N79-24651 *	NASA-CASE-ARC-11511-2	c 27	N86-32697 *	NASA-CASE-ERC-10226-1	c 14	N73-16483 *
NASA-CASE-ARC-11059-1	c 54	N78-32721 *	NASA-CASE-ARC-11512-2	c 27	N87-21112 *	NASA-CASE-ERC-10248	c 14	N72-17323 *
NASA-CASE-ARC-11060-1	c 27	N79-22300 *	NASA-CASE-ARC-11522-2	c 27	N86-32568 *	NASA-CASE-ERC-10267	c 09	N72-23173 *
NASA-CASE-ARC-11097-1	c 25	N82-24312 *	NASA-CASE-ARC-11525-1	c 37	N85-34280 *	NASA-CASE-ERC-10268	c 09	N72-25252 *
NASA-CASE-ARC-11100-1	c 54	N78-31736 *	NASA-CASE-ARC-11533-1	c 27	N86-27629 *	NASA-CASE-ERC-10275	c 26	N72-25680 *
NASA-CASE-ARC-11101-1	c 54	N78-17675 *	NASA-CASE-ARC-11533-2	c 27	N87-23751 *	NASA-CASE-ERC-10276	c 14	N73-26432 *
NASA-CASE-ARC-11104-1	c 15	N79-26100 *	NASA-CASE-ARC-11533-3	c 27	N89-16042 *	NASA-CASE-ERC-10283	c 16	N72-25485 *
NASA-CASE-ARC-11106-1	c 05	N80-14107 *	NASA-CASE-ARC-11534-1	c 54	N87-24564 *	NASA-CASE-ERC-10285	c 10	N73-16206 *
NASA-CASE-ARC-11107-1	c 25	N80-16116 *	NASA-CASE-ARC-11536-1	c 33	N86-29507 *	NASA-CASE-ERC-10292	c 14	N72-25410 *
NASA-CASE-ARC-11110-1	c 37	N82-24492 *	NASA-CASE-ARC-11538-1SB	c 24	N89-14384 *	NASA-CASE-ERC-10307	c 08	N72-21198 *
NASA-CASE-ARC-11114-1	c 51	N81-14605 *	NASA-CASE-ARC-11543-1	c 54	N86-21590 *	NASA-CASE-ERC-10324	c 07	N72-25173 *
NASA-CASE-ARC-11116-1	c 33	N82-24420 *	NASA-CASE-ARC-11547-1	c 36	N86-28620 *	NASA-CASE-ERC-10325	c 15	N72-25457 *
NASA-CASE-ARC-11117-1	c 52	N81-14612 *	NASA-CASE-ARC-11548-1	c 27	N87-17026 *	NASA-CASE-ERC-10338	c 04	N72-33072 *
NASA-CASE-ARC-11118-1	c 52	N81-29764 *	NASA-CASE-ARC-11610-1	c 54	N87-25469 *	NASA-CASE-ERC-10339-1	c 18	N73-30532 *
NASA-CASE-ARC-11118-2	c 52	N81-14613 *	NASA-CASE-ARC-11611-1	c 74	N86-28619 *	NASA-CASE-ERC-10350	c 14	N73-20474 *
NASA-CASE-ARC-11120-1	c 52	N80-18691 *	NASA-CASE-ARC-11611-2	c 33	N87-28416 *	NASA-CASE-ERC-10363	c 18	N72-25541 *
NASA-CASE-ARC-11121-1	c 25	N79-14169 *	NASA-CASE-ARC-11613-1	c 33	N87-28833 *	NASA-CASE-ERC-10364	c 18	N72-25540 *
NASA-CASE-ARC-11154-1	c 25	N80-23383 *	NASA-CASE-ARC-11615-1SB	c 24	N86-28131 *	NASA-CASE-ERC-10365-1	c 31	N73-32749 *
NASA-CASE-ARC-11157-1	c 37	N80-18393 *	NASA-CASE-ARC-11620-1	c 54	N86-28618 *	NASA-CASE-ERC-10392	c 21	N73-14692 *
NASA-CASE-ARC-11158-1	c 09	N82-24212 *	NASA-CASE-ARC-11622-1	c 37	N87-25573 *	NASA-CASE-ERC-10403-1	c 10	N73-26228 *
NASA-CASE-ARC-11164-1	c 44	N83-34448 *	NASA-CASE-ARC-11631-1	c 34	N88-14492 *	NASA-CASE-ERC-10412-1	c 09	N73-12211 *
NASA-CASE-ARC-11167-1	c 52	N81-25662 *	NASA-CASE-ARC-11633-1	c 44	N87-21255 *	NASA-CASE-ERC-10419-1	c 03	N75-30132 *
NASA-CASE-ARC-11169-1	c 24	N79-24062 *	NASA-CASE-ARC-11634-1	c 08	N87-23631 *	NASA-CASE-ERC-10439	c 02	N73-19004 *
NASA-CASE-ARC-11170-1	c 27	N79-11215 *	NASA-CASE-ARC-11635-1	c 36	N88-14350 *	NASA-CASE-ERC-10468	c 09	N72-20206 *
NASA-CASE-ARC-11174-1	c 24	N81-13999 *	NASA-CASE-ARC-11636-1	c 18	N90-16860 *	NASA-CASE-ERC-10552	c 09	N71-12539 *
NASA-CASE-ARC-11176-1	c 27	N82-18389 *	NASA-CASE-ARC-11641-1	c 05	N88-28914 *	NASA-CASE-ERC-11020	c 14	N71-26774 *
NASA-CASE-ARC-11176-2	c 27	N81-27271 *	NASA-CASE-ARC-11643-1SB	c 24	N88-18628 *			
NASA-CASE-ARC-11241-1	c 25	N81-14016 *	NASA-CASE-ARC-11646-1	c 23	N87-23698 *	NASA-CASE-FRC-10005	c 15	N71-26145 *
NASA-CASE-ARC-11243-2	c 23	N85-33187 *	NASA-CASE-ARC-11649-1SB	c 14	N87-25344 *	NASA-CASE-FRC-10010	c 10	N71-24862 *
NASA-CASE-ARC-11244-1	c 23	N82-16174 *	NASA-CASE-ARC-11649-2SB	c 27	N88-29040 *	NASA-CASE-FRC-10012	c 14	N72-17329 *
NASA-CASE-ARC-11245-1	c 28	N82-18491 *	NASA-CASE-ARC-11652-1	c 27	N90-21177 *	NASA-CASE-FRC-10019	c 15	N73-12487 *
NASA-CASE-ARC-11246-1	c 31	N83-34073 *			N87-23737 *	NASA-CASE-FRC-10022	c 12	N71-26546 *

REPORT NUMBER INDEX

NASA-CASE-GSC-12321-1

NASA-CASE-FRC-10029-2	c 05	N72-25121 *	NASA-CASE-GSC-10566-1	c 15	N72-18477 *	NASA-CASE-GSC-11623-1	c 33	N75-25040 *
NASA-CASE-FRC-10029	c 09	N71-24618 *	NASA-CASE-GSC-10590-1	c 31	N73-14853 *	NASA-CASE-GSC-11743-1	c 32	N75-24981 *
NASA-CASE-FRC-10036	c 09	N72-22200 *	NASA-CASE-GSC-10607-1	c 15	N72-20442 *	NASA-CASE-GSC-11744-1	c 33	N75-26243 *
NASA-CASE-FRC-10038	c 15	N72-20444 *	NASA-CASE-GSC-10614-1	c 09	N72-11224 *	NASA-CASE-GSC-11746-1	c 36	N75-19654 *
NASA-CASE-FRC-10049-1	c 04	N74-13420 *	NASA-CASE-GSC-10640-1	c 28	N72-18766 *	NASA-CASE-GSC-11752-1	c 77	N75-20140 *
NASA-CASE-FRC-10051-1	c 35	N74-13129 *	NASA-CASE-GSC-10656-1	c 09	N72-25249 *	NASA-CASE-GSC-11760-1	c 33	N75-19516 *
NASA-CASE-FRC-10053	c 14	N70-35587 *	NASA-CASE-GSC-10667-1	c 10	N71-33129 *	NASA-CASE-GSC-11782-1	c 74	N76-30053 *
NASA-CASE-FRC-10060-1	c 14	N73-27379 *	NASA-CASE-GSC-10668-1	c 07	N71-28430 *	NASA-CASE-GSC-11783-1	c 33	N75-19516 *
NASA-CASE-FRC-10063	c 01	N71-12217 *	NASA-CASE-GSC-10669-1	c 03	N72-20031 *	NASA-CASE-GSC-11786-1	c 24	N76-24363 *
NASA-CASE-FRC-10071-1	c 32	N74-20813 *	NASA-CASE-GSC-10695-1	c 09	N72-25259 *	NASA-CASE-GSC-11789-1	c 33	N77-14333 *
NASA-CASE-FRC-10072-1	c 33	N74-14939 *	NASA-CASE-GSC-10700	c 23	N71-30027 *	NASA-CASE-GSC-11824-1	c 33	N77-26386 *
NASA-CASE-FRC-10081-1	c 37	N77-14477 *	NASA-CASE-GSC-10709-1	c 28	N71-25213 *	NASA-CASE-GSC-11829-1	c 35	N75-27331 *
NASA-CASE-FRC-10090-1	c 33	N78-18308 *	NASA-CASE-GSC-10710-1	c 28	N71-27094 *	NASA-CASE-GSC-11839-1	c 60	N77-14751 *
NASA-CASE-FRC-10092-1	c 05	N79-12061 *	NASA-CASE-GSC-10735-1	c 10	N71-26085 *	NASA-CASE-GSC-11839-2	c 60	N78-17079 *
NASA-CASE-FRC-10093-1	c 35	N80-20560 *	NASA-CASE-GSC-10780-1	c 14	N72-16283 *	NASA-CASE-GSC-11839-3	c 60	N77-32731 *
NASA-CASE-FRC-10111-1	c 37	N79-10419 *	NASA-CASE-GSC-10786-1	c 10	N72-28241 *	NASA-CASE-GSC-11844-1	c 33	N75-19522 *
NASA-CASE-FRC-10112-1	c 35	N81-26431 *	NASA-CASE-GSC-10791-1	c 15	N73-14469 *	NASA-CASE-GSC-11849-1	c 33	N76-16332 *
NASA-CASE-FRC-10113-1	c 33	N80-26599 *	NASA-CASE-GSC-10814-1	c 03	N73-20039 *	NASA-CASE-GSC-11862-1	c 32	N76-18295 *
NASA-CASE-FRC-10116-1	c 33	N79-23345 *	NASA-CASE-GSC-10835-1	c 09	N72-32205 *	NASA-CASE-GSC-11868-1	c 17	N76-22245 *
NASA-CASE-FRC-11005-1	c 06	N82-16075 *	NASA-CASE-GSC-10878-1	c 10	N72-22236 *	NASA-CASE-GSC-11877-1	c 74	N76-18913 *
NASA-CASE-FRC-11007-2	c 05	N82-26277 *	NASA-CASE-GSC-10879-1	c 14	N72-25413 *	NASA-CASE-GSC-11883-1	c 37	N77-19458 *
NASA-CASE-FRC-11009-1	c 06	N80-18036 *	NASA-CASE-GSC-10880-1	c 08	N72-11172 *	NASA-CASE-GSC-11883-2	c 37	N78-31426 *
NASA-CASE-FRC-11012-1	c 52	N80-23969 *	NASA-CASE-GSC-10890-1	c 21	N73-30640 *	NASA-CASE-GSC-11889-1	c 35	N76-16393 *
NASA-CASE-FRC-11013-1	c 43	N81-17499 *	NASA-CASE-GSC-10891-1	c 10	N71-26626 *	NASA-CASE-GSC-11892-1	c 35	N76-15433 *
NASA-CASE-FRC-11014-1	c 33	N82-18494 *	NASA-CASE-GSC-10903-1	c 14	N73-12444 *	NASA-CASE-GSC-11893-1	c 35	N76-31489 *
NASA-CASE-FRC-11024-1	c 02	N80-28300 *	NASA-CASE-GSC-10913	c 15	N72-22491 *	NASA-CASE-GSC-11895-1	c 35	N76-15436 *
NASA-CASE-FRC-11025-1	c 33	N82-24417 *	NASA-CASE-GSC-10945-1	c 21	N72-31637 *	NASA-CASE-GSC-11898-1	c 32	N77-30309 *
NASA-CASE-FRC-11026-1	c 24	N82-24296 *	NASA-CASE-GSC-10949-1	c 07	N71-28965 *	NASA-CASE-GSC-11902-1	c 38	N77-17495 *
NASA-CASE-FRC-11029-1	c 06	N81-17057 *	NASA-CASE-GSC-10975-1	c 08	N73-13187 *	NASA-CASE-GSC-11909	c 32	N74-20863 *
NASA-CASE-FRC-11041-1	c 33	N82-18493 *	NASA-CASE-GSC-10984-1	c 37	N75-26371 *	NASA-CASE-GSC-11917-2	c 51	N76-29891 *
NASA-CASE-FRC-11042-1	c 60	N82-24839 *	NASA-CASE-GSC-10990-1	c 09	N73-26195 *	NASA-CASE-GSC-11924-1	c 33	N76-27472 *
NASA-CASE-FRC-11043-1	c 06	N83-33882 *	NASA-CASE-GSC-11013-1	c 09	N73-19234 *	NASA-CASE-GSC-11925-1	c 33	N76-18353 *
NASA-CASE-FRC-11044-1	c 37	N81-33483 *	NASA-CASE-GSC-11018-1	c 31	N73-30829 *	NASA-CASE-GSC-11960-1	c 37	N77-14479 *
NASA-CASE-FRC-11052-1	c 04	N82-23231 *	NASA-CASE-GSC-11046-1	c 07	N73-28013 *	NASA-CASE-GSC-11963-1	c 33	N77-10429 *
NASA-CASE-FRC-11055-1	c 33	N80-29583 *	NASA-CASE-GSC-11063-1	c 37	N77-27400 *	NASA-CASE-GSC-11968-1	c 32	N76-15329 *
NASA-CASE-FRC-11058-1	c 85	N82-33288 *	NASA-CASE-GSC-11074-1	c 14	N73-28489 *	NASA-CASE-GSC-11974-1	c 37	N77-19458 *
NASA-CASE-FRC-11062-1	c 71	N82-16800 *	NASA-CASE-GSC-11077-1	c 02	N73-13008 *	NASA-CASE-GSC-11975-1	c 37	N77-19458 *
NASA-CASE-FRC-11065-1	c 05	N83-19737 *	NASA-CASE-GSC-11079-1	c 37	N75-18574 *	NASA-CASE-GSC-11976-1	c 43	N78-10529 *
NASA-CASE-FRC-11068-1	c 35	N84-12443 *	NASA-CASE-GSC-11092-2	c 04	N73-27052 *	NASA-CASE-GSC-11978-1	c 37	N77-17464 *
NASA-CASE-FRC-11072-1	c 05	N83-27975 *	NASA-CASE-GSC-11095-1	c 14	N72-10375 *	NASA-CASE-GSC-11989-1	c 74	N77-28932 *
NASA-CASE-GSC-10007	c 18	N71-16046 *	NASA-CASE-GSC-11126-1	c 09	N72-25253 *	NASA-CASE-GSC-11998-1	c 34	N77-32413 *
NASA-CASE-GSC-10017-1	c 44	N82-24643 *	NASA-CASE-GSC-11127-1	c 09	N75-24758 *	NASA-CASE-GSC-12010-1	c 74	N78-18905 *
NASA-CASE-GSC-10018-1	c 44	N82-24644 *	NASA-CASE-GSC-11133-1	c 23	N72-11568 *	NASA-CASE-GSC-12017-1	c 32	N77-30308 *
NASA-CASE-GSC-10019-1	c 44	N82-24641 *	NASA-CASE-GSC-11139	c 09	N71-27016 *	NASA-CASE-GSC-12018-1	c 33	N77-14334 *
NASA-CASE-GSC-10021-1	c 09	N71-24595 *	NASA-CASE-GSC-11149-1	c 15	N73-30457 *	NASA-CASE-GSC-12022-1	c 44	N76-28635 *
NASA-CASE-GSC-10022-1	c 10	N71-25882 *	NASA-CASE-GSC-11163-1	c 15	N73-32360 *	NASA-CASE-GSC-12022-2	c 44	N78-24609 *
NASA-CASE-GSC-10041-1	c 10	N71-19418 *	NASA-CASE-GSC-11169-2	c 05	N73-32011 *	NASA-CASE-GSC-12023-1	c 44	N76-28635 *
NASA-CASE-GSC-10062	c 14	N71-15605 *	NASA-CASE-GSC-11182-1	c 15	N75-13007 *	NASA-CASE-GSC-12030-1	c 44	N78-24608 *
NASA-CASE-GSC-10064-1	c 10	N72-22235 *	NASA-CASE-GSC-11188-1	c 14	N73-32320 *	NASA-CASE-GSC-12032-2	c 43	N82-13465 *
NASA-CASE-GSC-10065-1	c 10	N71-27136 *	NASA-CASE-GSC-11188-2	c 21	N73-19630 *	NASA-CASE-GSC-12039-1	c 51	N77-22794 *
NASA-CASE-GSC-10072	c 18	N71-14014 *	NASA-CASE-GSC-11188-3	c 74	N74-20008 *	NASA-CASE-GSC-12044-1	c 60	N78-17691 *
NASA-CASE-GSC-10082-1	c 10	N72-20221 *	NASA-CASE-GSC-11205-1	c 15	N73-25513 *	NASA-CASE-GSC-12046-1	c 52	N79-14750 *
NASA-CASE-GSC-10083-1	c 30	N71-16090 *	NASA-CASE-GSC-11211-1	c 03	N72-25020 *	NASA-CASE-GSC-12053-1	c 32	N77-28346 *
NASA-CASE-GSC-10087-1	c 02	N71-19287 *	NASA-CASE-GSC-11214-1	c 06	N73-13128 *	NASA-CASE-GSC-12058-1	c 74	N77-26942 *
NASA-CASE-GSC-10087-2	c 21	N71-13958 *	NASA-CASE-GSC-11215-1	c 09	N73-28083 *	NASA-CASE-GSC-12059-1	c 35	N77-27366 *
NASA-CASE-GSC-10087-3	c 07	N72-12080 *	NASA-CASE-GSC-11222-1	c 16	N73-32391 *	NASA-CASE-GSC-12075-1	c 32	N77-31350 *
NASA-CASE-GSC-10087-4	c 07	N73-20174 *	NASA-CASE-GSC-11239-1	c 10	N73-25241 *	NASA-CASE-GSC-12077-1	c 35	N77-24455 *
NASA-CASE-GSC-10097-1	c 08	N71-27210 *	NASA-CASE-GSC-11262-1	c 36	N74-21091 *	NASA-CASE-GSC-12081-2	c 52	N82-22875 *
NASA-CASE-GSC-10114-1	c 10	N71-27366 *	NASA-CASE-GSC-11291-1	c 25	N72-33696 *	NASA-CASE-GSC-12082-1	c 54	N76-22914 *
NASA-CASE-GSC-10118-1	c 07	N71-24621 *	NASA-CASE-GSC-11296-1	c 23	N73-30666 *	NASA-CASE-GSC-12082-2	c 52	N81-25661 *
NASA-CASE-GSC-10131-1	c 07	N71-24624 *	NASA-CASE-GSC-11302-1	c 14	N73-13416 *	NASA-CASE-GSC-12083-1	c 73	N78-32848 *
NASA-CASE-GSC-10135	c 33	N78-17396 *	NASA-CASE-GSC-11304-1	c 06	N72-21105 *	NASA-CASE-GSC-12088-1	c 74	N78-13874 *
NASA-CASE-GSC-10185-1	c 07	N72-12081 *	NASA-CASE-GSC-11340-1	c 10	N72-32320 *	NASA-CASE-GSC-12110-1	c 27	N77-32308 *
NASA-CASE-GSC-10186	c 08	N71-33110 *	NASA-CASE-GSC-11353-1	c 74	N74-21304 *	NASA-CASE-GSC-12111-2	c 33	N81-29342 *
NASA-CASE-GSC-10188-1	c 23	N71-24725 *	NASA-CASE-GSC-11358-1	c 06	N73-26100 *	NASA-CASE-GSC-12115-1	c 62	N76-31946 *
NASA-CASE-GSC-10216-1	c 23	N71-26722 *	NASA-CASE-GSC-11367-1	c 44	N74-19692 *	NASA-CASE-GSC-12137-1	c 33	N78-32338 *
NASA-CASE-GSC-10218-1	c 15	N72-21465 *	NASA-CASE-GSC-11367	c 10	N71-26374 *	NASA-CASE-GSC-12138-1	c 33	N79-20314 *
NASA-CASE-GSC-10220-1	c 07	N71-27233 *	NASA-CASE-GSC-11368-1	c 09	N73-32108 *	NASA-CASE-GSC-12143-1	c 35	N77-32456 *
NASA-CASE-GSC-10221-1	c 09	N72-23171 *	NASA-CASE-GSC-11394-1	c 09	N73-32109 *	NASA-CASE-GSC-12145-1	c 33	N78-32339 *
NASA-CASE-GSC-10225-1	c 06	N73-27086 *	NASA-CASE-GSC-11425-1	c 76	N74-20329 *	NASA-CASE-GSC-12146-1	c 33	N78-32340 *
NASA-CASE-GSC-10299-1	c 09	N71-24804 *	NASA-CASE-GSC-11425-2	c 76	N75-25730 *	NASA-CASE-GSC-12147-1	c 32	N81-27341 *
NASA-CASE-GSC-10303	c 15	N72-22487 *	NASA-CASE-GSC-11428-1	c 32	N74-20864 *	NASA-CASE-GSC-12148-1	c 32	N79-20296 *
NASA-CASE-GSC-10306-1	c 15	N71-24694 *	NASA-CASE-GSC-11434-1	c 34	N74-27859 *	NASA-CASE-GSC-12150-1	c 32	N79-11265 *
NASA-CASE-GSC-10344-1	c 03	N72-27053 *	NASA-CASE-GSC-11444-1	c 14	N73-28490 *	NASA-CASE-GSC-12158-1	c 51	N83-27569 *
NASA-CASE-GSC-10349-1	c 44	N82-24645 *	NASA-CASE-GSC-11445-1	c 31	N74-27902 *	NASA-CASE-GSC-12168-1	c 31	N79-17029 *
NASA-CASE-GSC-10350-1	c 44	N82-24642 *	NASA-CASE-GSC-11446-1	c 33	N74-20860 *	NASA-CASE-GSC-12171-1	c 33	N79-28416 *
NASA-CASE-GSC-10361-1	c 18	N72-23581 *	NASA-CASE-GSC-11479-1	c 35	N74-28097 *	NASA-CASE-GSC-12173-1	c 51	N79-10694 *
NASA-CASE-GSC-10366-1	c 10	N71-18772 *	NASA-CASE-GSC-11487-1	c 14	N73-30393 *	NASA-CASE-GSC-12190-1	c 33	N79-12321 *
NASA-CASE-GSC-10373-1	c 07	N71-19773 *	NASA-CASE-GSC-11492-1	c 35	N74-26949 *	NASA-CASE-GSC-12191-1	c 31	N80-32583 *
NASA-CASE-GSC-10376-1	c 14	N71-27407 *	NASA-CASE-GSC-11513-1	c 33	N74-20862 *	NASA-CASE-GSC-12194-2	c 20	N82-18314 *
NASA-CASE-GSC-10390-1	c 07	N72-11449 *	NASA-CASE-GSC-11514-1	c 03	N72-24037 *	NASA-CASE-GSC-12207-1	c 24	N79-14156 *
NASA-CASE-GSC-10413	c 10	N71-26531 *	NASA-CASE-GSC-11531-1	c 52	N74-27566 *	NASA-CASE-GSC-12219-1	c 35	N80-18359 *
NASA-CASE-GSC-10441-1	c 14	N71-27325 *	NASA-CASE-GSC-11533-1	c 14	N73-13435 *	NASA-CASE-GSC-12223-1	c 60	N83-25378 *
NASA-CASE-GSC-10452	c 07	N71-12396 *	NASA-CASE-GSC-11551-1	c 37	N76-18459 *	NASA-CASE-GSC-12225-1	c 74	N79-14891 *
NASA-CASE-GSC-10487-1	c 03	N71-24719 *	NASA-CASE-GSC-11553-1	c 35	N74-15831 *	NASA-CASE-GSC-12228-1	c 33	N79-10338 *
NASA-CASE-GSC-10503-1	c 14	N72-20381 *	NASA-CASE-GSC-11560-1	c 33	N74-20861 *	NASA-CASE-GSC-12237-1	c 36	N80-14384 *
NASA-CASE-GSC-10514-1	c 14	N72-20379 *	NASA-CASE-GSC-11569-1	c 89	N74-30886 *	NASA-CASE-GSC-12253-1	c 34	N79-31523 *
NASA-CASE-GSC-10518-1	c 15	N72-22489 *	NASA-CASE-GSC-11571-1	c 36	N77-25499 *	NASA-CASE-GSC-12263-1	c 74	N79-20857 *
NASA-CASE-GSC-10553-1	c 07	N71-19854 *	NASA-CASE-GSC-11577-1	c 37	N75-15992 *	NASA-CASE-GSC-12273-1	c 35	N80-21719 *
NASA-CASE-GSC-10554-1	c 08	N71-29033 *	NASA-CASE-GSC-11577-3	c 24	N79-25143 *	NASA-CASE-GSC-12274-1	c 37	N79-28550 *
NASA-CASE-GSC-10555-1	c 21	N71-27324 *	NASA-CASE-GSC-11582-1	c 33	N75-19517 *	NASA-CASE-GSC-12289-1	c 37	N80-32717 *
NASA-CASE-GSC-10556-1	c 31	N71-26537 *	NASA-CASE-GSC-11600-1	c 35	N74-21019 *	NASA-CASE-GSC-12291-1	c 76	N80-18951 *
NASA-CASE-GSC-10557-1	c 31	N71-26537 *	NASA-CASE-GSC-11602-1	c 33	N74-21850 *	NASA-CASE-GSC-12297-1	c 37	N79-28549 *
NASA-CASE-GSC-10564	c 10	N71-29135 *	NASA-CASE-GSC-11617-1	c 33	N74-32660 *	NASA-CASE-GSC-12303-1	c 24	N79-31347 *
NASA-CASE-GSC-10565-1	c 06	N72-25149 *	NASA-CASE-GSC-11619-1	c 34	N75-12222 *	NASA-CASE-GSC-12318-1	c 37	N80-23655 *
			NASA-CASE-GSC-11620-1	c 34	N74-23039 *	NASA-CASE-GSC-12321-1	c 36	N82-16396 *

NASA-CASE-GSC-12322-1	c 37	N80-14398 *	NASA-CASE-GSC-13112-1	c 31	N89-29578 *	NASA-CASE-KSC-10728-1	c 14	N73-32319 *
NASA-CASE-GSC-12324-1	c 33	N81-33403 *	NASA-CASE-GSC-13127-1	c 37	N91-17388 *	NASA-CASE-KSC-10729-1	c 09	N73-32110 *
NASA-CASE-GSC-12331-1	c 18	N80-14183 *	NASA-CASE-GSC-13153-1	c 37	N91-17387 *	NASA-CASE-KSC-10730-1	c 14	N73-32318 *
NASA-CASE-GSC-12334-1	c 36	N79-14362 *	NASA-CASE-GSC-13173-1	c 33	N90-23635 *	NASA-CASE-KSC-10731-1	c 33	N74-27862 *
NASA-CASE-GSC-12347-1	c 33	N80-18286 *	NASA-CASE-GSC-13175-1	c 74	N91-14001 *	NASA-CASE-KSC-10736-1	c 33	N75-19521 *
NASA-CASE-GSC-12348-1	c 74	N80-24149 *	NASA-CASE-GSC-13179-1	c 33	N91-26438 *	NASA-CASE-KSC-10750-1	c 35	N75-12270 *
NASA-CASE-GSC-12354-1	c 35	N82-24471 *	NASA-CASE-GSC-13197-1	c 18	N91-27201 *	NASA-CASE-KSC-10769-1	c 33	N74-29556 *
NASA-CASE-GSC-12357-1	c 74	N80-21140 *	NASA-CASE-GSC-13199-1	c 27	N90-23541 *	NASA-CASE-KSC-10782-1	c 33	N75-30431 *
NASA-CASE-GSC-12360-1	c 33	N81-19392 *	NASA-CASE-GSC-13200-1	c 37	N92-21500 *	NASA-CASE-KSC-10807-1	c 33	N75-26246 *
NASA-CASE-GSC-12365-1	c 32	N80-28578 *	NASA-CASE-GSC-13212-1	c 43	N91-32546 *	NASA-CASE-KSC-10834-1	c 33	N76-14371 *
NASA-CASE-GSC-12399-1	c 33	N81-25299 *	NASA-CASE-GSC-13220-1	c 37	N91-21525 *	NASA-CASE-KSC-10849-1	c 52	N77-14738 *
NASA-CASE-GSC-12411-1	c 33	N81-14221 *	NASA-CASE-GSC-13230-1	c 37	N91-13734 *	NASA-CASE-KSC-10899-1	c 33	N79-18193 *
NASA-CASE-GSC-12415-1	c 33	N82-24419 *	NASA-CASE-GSC-13237-1	c 33	N91-14550 *	NASA-CASE-KSC-11004-1	c 54	N77-30749 *
NASA-CASE-GSC-12420-1	c 33	N82-16340 *	NASA-CASE-GSC-13239-1	c 37	N91-31656 *	NASA-CASE-KSC-11008-1	c 33	N77-22373 *
NASA-CASE-GSC-12429-1	c 37	N81-14320 *	NASA-CASE-GSC-13240-1	c 35	N92-10186 *	NASA-CASE-KSC-11010-1	c 74	N79-12890 *
NASA-CASE-GSC-12430-1	c 60	N82-16747 *	NASA-CASE-GSC-13251-1	c 37	N91-28582 *	NASA-CASE-KSC-11018-1	c 33	N79-10337 *
NASA-CASE-GSC-12442-2	c 33	N90-20282 *	NASA-CASE-GSC-13261-1	c 37	N91-17401 *	NASA-CASE-KSC-11023-1	c 32	N79-23310 *
NASA-CASE-GSC-12447-2	c 60	N84-28491 *	NASA-CASE-GSC-13265-1	c 76	N91-14066 *	NASA-CASE-KSC-11025-1	c 32	N83-13323 *
NASA-CASE-GSC-12508-1	c 04	N84-22546 *	NASA-CASE-GSC-13280-1	c 33	N91-27479 *	NASA-CASE-KSC-11030-1	c 52	N77-25772 *
NASA-CASE-GSC-12513-1	c 31	N81-19343 *	NASA-CASE-GSC-13306-1	c 52	N91-28727 *	NASA-CASE-KSC-11031-1	c 33	N79-11315 *
NASA-CASE-GSC-12515-1	c 33	N81-26360 *	NASA-CASE-GSC-13343-1	c 36	N91-28557 *	NASA-CASE-KSC-11034-1	c 44	N78-32542 *
NASA-CASE-GSC-12517-1	c 37	N83-32067 *	NASA-CASE-GSC-13344-1	c 26	N91-28363 *	NASA-CASE-KSC-11035-1	c 35	N78-28411 *
NASA-CASE-GSC-12518-1	c 33	N82-24421 *	NASA-CASE-GSC-13346-1	c 37	N91-28578 *	NASA-CASE-KSC-11042-1	c 09	N82-29330 *
NASA-CASE-GSC-12528-1	c 74	N81-24900 *	NASA-CASE-GSC-13348-2	c 52	N91-29714 *	NASA-CASE-KSC-11042-2	c 02	N81-26073 *
NASA-CASE-GSC-12550-1	c 37	N84-28082 *	NASA-CASE-GSC-13369-1	c 33	N92-15331 *	NASA-CASE-KSC-11047-1	c 74	N78-14889 *
NASA-CASE-GSC-12551-1	c 18	N83-28064 *	NASA-CASE-GSC-13376-1	c 37	N91-28579 *	NASA-CASE-KSC-11048-1	c 62	N81-24779 *
NASA-CASE-GSC-12553-1	c 34	N83-28356 *	NASA-CASE-GSC-13376-1	c 37	N92-21728 *	NASA-CASE-KSC-11057-1	c 33	N79-14305 *
NASA-CASE-GSC-12555-1	c 33	N86-19515 *	NASA-CASE-GSC-13377-1	c 63	N91-28785 *	NASA-CASE-KSC-11064-1	c 31	N81-14137 *
NASA-CASE-GSC-12558-1	c 36	N85-21639 *	NASA-CASE-GSC-13378-1	c 37	N91-28581 *	NASA-CASE-KSC-11065-1	c 33	N81-26359 *
NASA-CASE-GSC-12560-1	c 52	N82-29863 *				NASA-CASE-KSC-11069-1	c 52	N79-26772 *
NASA-CASE-GSC-12565-1	c 36	N84-14509 *	NASA-CASE-HQN-00573-1	c 37	N79-33468 *	NASA-CASE-KSC-11076-1	c 34	N81-26402 *
NASA-CASE-GSC-12566-1	c 33	N83-34189 *	NASA-CASE-HQN-00936	c 31	N71-29050 *	NASA-CASE-KSC-11085-1	c 54	N81-24724 *
NASA-CASE-GSC-12567-1	c 33	N84-22887 *	NASA-CASE-HQN-00937	c 07	N71-28979 *	NASA-CASE-KSC-11097-1	c 27	N82-33520 *
NASA-CASE-GSC-12582-2	c 37	N85-20337 *	NASA-CASE-HQN-00938	c 33	N71-29053 *	NASA-CASE-KSC-11099-1	c 47	N82-24779 *
NASA-CASE-GSC-12584-1	c 37	N82-32730 *	NASA-CASE-HQN-10037-1	c 14	N73-27376 *	NASA-CASE-KSC-11104-1	c 74	N83-29032 *
NASA-CASE-GSC-12587-1	c 35	N82-32659 *	NASA-CASE-HQN-10069	c 33	N75-27251 *	NASA-CASE-KSC-11155-1	c 04	N86-19304 *
NASA-CASE-GSC-12592-1	c 36	N84-28065 *	NASA-CASE-HQN-10274-1	c 27	N82-29451 *	NASA-CASE-KSC-11170-1	c 33	N83-36356 *
NASA-CASE-GSC-12595-1	c 33	N82-24422 *	NASA-CASE-HQN-10328-2	c 27	N82-29454 *	NASA-CASE-KSC-11218-1	c 09	N85-19990 *
NASA-CASE-GSC-12608-1	c 74	N83-10900 *	NASA-CASE-HQN-10364	c 06	N71-27363 *	NASA-CASE-KSC-11282-1	c 85	N87-21755 *
NASA-CASE-GSC-12609-1	c 36	N81-22344 *	NASA-CASE-HQN-10439	c 21	N72-21624 *	NASA-CASE-KSC-11285-1	c 32	N86-27513 *
NASA-CASE-GSC-12609-2	c 36	N83-29681 *	NASA-CASE-HQN-10462	c 25	N75-29192 *	NASA-CASE-KSC-11304-2	c 28	N91-14495 *
NASA-CASE-GSC-12614-1	c 74	N83-32577 *	NASA-CASE-HQN-10537-1	c 06	N72-10138 *	NASA-CASE-KSC-11322-1	c 54	N89-29953 *
NASA-CASE-GSC-12619-1	c 37	N84-12491 *	NASA-CASE-HQN-10541-1	c 07	N71-26291 *	NASA-CASE-KSC-11368-1	c 37	N89-13786 *
NASA-CASE-GSC-12622-1	c 37	N84-12492 *	NASA-CASE-HQN-10541-2	c 15	N71-27135 *	NASA-CASE-KSC-11386-1	c 35	N90-22023 *
NASA-CASE-GSC-12630-1	c 33	N83-36355 *	NASA-CASE-HQN-10541-3	c 23	N72-23695 *	NASA-CASE-KSC-11387-1	c 29	N90-20236 *
NASA-CASE-GSC-12636-1	c 31	N83-27058 *	NASA-CASE-HQN-10541-4	c 16	N71-27183 *	NASA-CASE-KSC-11392-1	c 74	N90-22383 *
NASA-CASE-GSC-12640-1	c 74	N84-11920 *	NASA-CASE-HQN-10542-1	c 74	N75-25706 *	NASA-CASE-KSC-11395-1-CU	c 34	N91-21473 *
NASA-CASE-GSC-12643-1	c 37	N83-26078 *	NASA-CASE-HQN-10595-1	c 27	N82-29455 *			
NASA-CASE-GSC-12645-1	c 33	N84-16454 *	NASA-CASE-HQN-10638-1	c 15	N73-30460 *	NASA-CASE-LAR-02743	c 14	N73-32324 *
NASA-CASE-GSC-12646-1	c 33	N83-34191 *	NASA-CASE-HQN-10654-1	c 16	N73-13489 *	NASA-CASE-LAR-10000	c 14	N73-30394 *
NASA-CASE-GSC-12650-1	c 33	N84-14421 *	NASA-CASE-HQN-10683	c 14	N71-34389 *	NASA-CASE-LAR-10007-1	c 05	N71-11195 *
NASA-CASE-GSC-12652-1	c 52	N84-34913 *	NASA-CASE-HQN-10703	c 21	N73-13643 *	NASA-CASE-LAR-10031	c 15	N72-22484 *
NASA-CASE-GSC-12682-1	c 35	N84-33765 *	NASA-CASE-HQN-10740-1	c 72	N74-19310 *	NASA-CASE-LAR-10056	c 05	N71-12351 *
NASA-CASE-GSC-12683-1	c 74	N83-36898 *	NASA-CASE-HQN-10756-1	c 14	N72-25428 *	NASA-CASE-LAR-10061-1	c 15	N72-31483 *
NASA-CASE-GSC-12686-1	c 27	N83-34039 *	NASA-CASE-HQN-10780	c 14	N71-30265 *	NASA-CASE-LAR-10073-1	c 37	N76-24575 *
NASA-CASE-GSC-12697-1	c 44	N83-28574 *	NASA-CASE-HQN-10781	c 23	N71-30292 *	NASA-CASE-LAR-10076-1	c 05	N73-20137 *
NASA-CASE-GSC-12726-1	c 37	N83-34323 *	NASA-CASE-HQN-10790-1	c 36	N74-11313 *	NASA-CASE-LAR-10083-1	c 15	N71-27006 *
NASA-CASE-GSC-12756-1	c 74	N84-23248 *	NASA-CASE-HQN-10792-1	c 33	N74-11049 *	NASA-CASE-LAR-10089-1	c 34	N74-23066 *
NASA-CASE-GSC-12761-1	c 74	N86-32266 *	NASA-CASE-HQN-10832-1	c 71	N74-21014 *	NASA-CASE-LAR-10098	c 32	N71-26681 *
NASA-CASE-GSC-12762-1	c 37	N84-28083 *	NASA-CASE-HQN-10841-1	c 73	N78-19920 *	NASA-CASE-LAR-10102-1	c 05	N72-23085 *
NASA-CASE-GSC-12770-1	c 25	N83-29324 *	NASA-CASE-HQN-10844-1	c 36	N75-19653 *	NASA-CASE-LAR-10103-1	c 15	N73-14468 *
NASA-CASE-GSC-12771-1	c 34	N84-14461 *	NASA-CASE-HQN-10862-1	c 44	N76-29699 *	NASA-CASE-LAR-10105-1	c 34	N74-15652 *
NASA-CASE-GSC-12773-2	c 33	N87-23904 *	NASA-CASE-HQN-10876-1	c 33	N76-27473 *	NASA-CASE-LAR-10106-1	c 15	N71-27169 *
NASA-CASE-GSC-12782-1	c 33	N88-14271 *	NASA-CASE-HQN-10880-1	c 17	N78-17140 *	NASA-CASE-LAR-10121-1	c 15	N71-26721 *
NASA-CASE-GSC-12788-1	c 33	N85-29145 *	NASA-CASE-HQN-10888-1	c 44	N79-14527 *	NASA-CASE-LAR-10128-1	c 08	N73-20217 *
NASA-CASE-GSC-12789-1	c 35	N85-20294 *	NASA-CASE-HQN-10931-2	c 27	N82-29452 *	NASA-CASE-LAR-10129-1	c 15	N73-25512 *
NASA-CASE-GSC-12795-1	c 35	N86-19580 *				NASA-CASE-LAR-10129-2	c 37	N74-20063 *
NASA-CASE-GSC-12799-1	c 31	N85-21404 *	NASA-CASE-KSC-10002	c 10	N71-25865 *	NASA-CASE-LAR-10135-1	c 09	N79-21083 *
NASA-CASE-GSC-12804-1	c 33	N86-20668 *	NASA-CASE-KSC-10003	c 10	N73-13235 *	NASA-CASE-LAR-10137-1	c 09	N72-22204 *
NASA-CASE-GSC-12808-1	c 25	N85-21279 *	NASA-CASE-KSC-10020	c 10	N71-27338 *	NASA-CASE-LAR-10163-1	c 09	N72-25247 *
NASA-CASE-GSC-12812-1	c 34	N83-35307 *	NASA-CASE-KSC-10031	c 15	N72-22486 *	NASA-CASE-LAR-10168-1	c 33	N74-22865 *
NASA-CASE-GSC-12816-1	c 76	N86-20150 *	NASA-CASE-KSC-10108	c 14	N73-25461 *	NASA-CASE-LAR-10170-1	c 37	N74-11301 *
NASA-CASE-GSC-12817-1	c 33	N85-29146 *	NASA-CASE-KSC-10126	c 11	N71-24985 *	NASA-CASE-LAR-10173-1	c 27	N71-14090 *
NASA-CASE-GSC-12818-1	c 33	N85-29147 *	NASA-CASE-KSC-10162	c 09	N72-11225 *	NASA-CASE-LAR-10176-1	c 14	N72-20380 *
NASA-CASE-GSC-12821-2	c 33	N91-31530 *	NASA-CASE-KSC-10164	c 07	N71-33108 *	NASA-CASE-LAR-10180-1	c 06	N71-13461 *
NASA-CASE-GSC-12825-1	c 74	N86-28732 *	NASA-CASE-KSC-10198	c 11	N71-28629 *	NASA-CASE-LAR-10184	c 14	N72-22445 *
NASA-CASE-GSC-12849-1	c 74	N86-26190 *	NASA-CASE-KSC-10242	c 15	N72-23497 *	NASA-CASE-LAR-10193-1	c 15	N71-27146 *
NASA-CASE-GSC-12851-1	c 35	N85-30281 *	NASA-CASE-KSC-10278	c 05	N72-16015 *	NASA-CASE-LAR-10194-1	c 34	N74-30608 *
NASA-CASE-GSC-12880-1	c 26	N86-32550 *	NASA-CASE-KSC-10294	c 14	N72-18411 *	NASA-CASE-LAR-10195-1	c 15	N73-19458 *
NASA-CASE-GSC-12883-1	c 27	N85-29044 *	NASA-CASE-KSC-10326	c 08	N72-21197 *	NASA-CASE-LAR-10203-1	c 15	N72-16330 *
NASA-CASE-GSC-12892-1	c 32	N89-14374 *	NASA-CASE-KSC-10392	c 07	N73-26117 *	NASA-CASE-LAR-10204	c 14	N71-27215 *
NASA-CASE-GSC-12897-1	c 74	N87-21679 *	NASA-CASE-KSC-10393	c 09	N72-21247 *	NASA-CASE-LAR-10208-1	c 35	N76-18400 *
NASA-CASE-GSC-12899-1	c 33	N86-20669 *	NASA-CASE-KSC-10397	c 08	N72-25206 *	NASA-CASE-LAR-10218-1	c 09	N70-34559 *
NASA-CASE-GSC-12911-1	c 74	N86-29650 *	NASA-CASE-KSC-10513	c 15	N72-25453 *	NASA-CASE-LAR-10226-1	c 14	N73-19419 *
NASA-CASE-GSC-12944-1	c 52	N86-19885 *	NASA-CASE-KSC-10521	c 07	N73-20176 *	NASA-CASE-LAR-10241-1	c 54	N74-14845 *
NASA-CASE-GSC-12956-1	c 35	N87-14671 *	NASA-CASE-KSC-10565	c 09	N72-25250 *	NASA-CASE-LAR-10249-1	c 02	N71-26110 *
NASA-CASE-GSC-12957-1	c 37	N87-17038 *	NASA-CASE-KSC-10595	c 08	N73-12176 *	NASA-CASE-LAR-10253-1	c 09	N72-25258 *
NASA-CASE-GSC-12958-1	c 33	N86-32624 *	NASA-CASE-KSC-10615	c 15	N73-12486 *	NASA-CASE-LAR-10256-1	c 85	N74-34672 *
NASA-CASE-GSC-12961-1	c 33	N87-22895 *	NASA-CASE-KSC-10622-1	c 31	N72-21893 *	NASA-CASE-LAR-10270-1	c 32	N72-25877 *
NASA-CASE-GSC-12970-1	c 08	N88-23808 *	NASA-CASE-KSC-10626	c 14	N73-27378 *	NASA-CASE-LAR-10274-1	c 14	N71-17626 *
NASA-CASE-GSC-13008-1	c 27	N88-23894 *	NASA-CASE-KSC-10639	c 15	N73-26472 *	NASA-CASE-LAR-10276-1	c 09	N75-15662 *
NASA-CASE-GSC-13008-2	c 27	N90-16949 *	NASA-CASE-KSC-10644	c 09	N72-27227 *	NASA-CASE-LAR-10294-1	c 26	N72-28762 *
NASA-CASE-GSC-13018-1	c 33	N87-21232 *	NASA-CASE-KSC-10647-1	c 10	N72-31273 *	NASA-CASE-LAR-10295-1	c 35	N74-21062 *
NASA-CASE-GSC-13019-1	c 34	N88-29133 *	NASA-CASE-KSC-10654-1	c 07	N73-30115 *	NASA-CASE-LAR-10305	c 14	N71-26137 *
NASA-CASE-GSC-13027-1-CU	c 35	N91-27522 *	NASA-CASE-KSC-10698	c 07	N73-20175 *	NASA-CASE-LAR-10310-1	c 10	N73-20253 *
NASA-CASE-GSC-13063-2-CU	c 33	N92-16197 *	NASA-CASE-KSC-10723-1	c 37	N75-13265 *	NASA-CASE-LAR-10311-1	c 16	N73-16536 *

REPORT NUMBER INDEX

NASA-CASE-LAR-12728-1

NASA-CASE-LAR-10317-1	c 32	N71-16103 *	NASA-CASE-LAR-11053-1	c 25	N74-18551 *	NASA-CASE-LAR-12027-1	c 39	N79-22537 *
NASA-CASE-LAR-10318-1	c 31	N74-18089 *	NASA-CASE-LAR-11059-1	c 76	N75-12810 *	NASA-CASE-LAR-12045-1	c 34	N77-24423 *
NASA-CASE-LAR-10319-1	c 14	N73-32322 *	NASA-CASE-LAR-11069-1	c 35	N75-12272 *	NASA-CASE-LAR-12046-1	c 25	N78-15210 *
NASA-CASE-LAR-10320-1	c 09	N72-23172 *	NASA-CASE-LAR-11071-1	c 35	N75-19611 *	NASA-CASE-LAR-12052-1	c 18	N81-29152 *
NASA-CASE-LAR-10323-1	c 12	N71-17573 *	NASA-CASE-LAR-11074-1	c 51	N75-13502 *	NASA-CASE-LAR-12054-1	c 27	N79-33316 *
NASA-CASE-LAR-10337-1	c 24	N75-30260 *	NASA-CASE-LAR-11110-1	c 34	N75-26282 *	NASA-CASE-LAR-12054-2	c 27	N81-14078 *
NASA-CASE-LAR-103348-1	c 11	N73-12264 *	NASA-CASE-LAR-11112-1	c 32	N76-15330 *	NASA-CASE-LAR-12065-1	c 24	N81-14000 *
NASA-CASE-LAR-10365-1	c 05	N72-27102 *	NASA-CASE-LAR-11138	c 12	N71-20436 *	NASA-CASE-LAR-12065-2	c 24	N81-33235 *
NASA-CASE-LAR-10372	c 09	N71-18599 *	NASA-CASE-LAR-11139-1	c 35	N74-32878 *	NASA-CASE-LAR-12077-1	c 31	N81-25259 *
NASA-CASE-LAR-10373-1	c 18	N71-26155 *	NASA-CASE-LAR-11141-1	c 07	N74-32418 *	NASA-CASE-LAR-12095-1	c 31	N81-25258 *
NASA-CASE-LAR-10385-2	c 70	N74-13436 *	NASA-CASE-LAR-11144-1	c 25	N75-26043 *	NASA-CASE-LAR-12099-1	c 27	N80-16158 *
NASA-CASE-LAR-10385-3	c 74	N78-15879 *	NASA-CASE-LAR-11155-1	c 35	N74-15091 *	NASA-CASE-LAR-12106-1	c 71	N78-14867 *
NASA-CASE-LAR-10403	c 21	N71-11766 *	NASA-CASE-LAR-11173-1	c 35	N75-19614 *	NASA-CASE-LAR-12147-1	c 31	N79-11246 *
NASA-CASE-LAR-10409-1	c 31	N74-21059 *	NASA-CASE-LAR-11201-1	c 35	N78-24515 *	NASA-CASE-LAR-12148-1	c 44	N82-24640 *
NASA-CASE-LAR-10416-1	c 24	N74-30001 *	NASA-CASE-LAR-11207-1	c 35	N75-19613 *	NASA-CASE-LAR-12149-2	c 09	N79-31228 *
NASA-CASE-LAR-10423-1	c 23	N82-29358 *	NASA-CASE-LAR-11208-1	c 44	N78-32539 *	NASA-CASE-LAR-12175-1	c 05	N82-28279 *
NASA-CASE-LAR-10426-1	c 09	N74-19528 *	NASA-CASE-LAR-11211-1	c 37	N75-12326 *	NASA-CASE-LAR-12176-1	c 36	N80-16321 *
NASA-CASE-LAR-10439-1	c 33	N73-27796 *	NASA-CASE-LAR-11213-1	c 35	N75-15014 *	NASA-CASE-LAR-12177-1	c 36	N81-24422 *
NASA-CASE-LAR-10440-1	c 14	N73-32323 *	NASA-CASE-LAR-11224-1	c 37	N76-18456 *	NASA-CASE-LAR-12178-1	c 74	N80-21138 *
NASA-CASE-LAR-10450-1	c 37	N74-27905 *	NASA-CASE-LAR-11237-1	c 35	N75-19612 *	NASA-CASE-LAR-12181-1	c 27	N78-17205 *
NASA-CASE-LAR-10483-1	c 14	N73-32327 *	NASA-CASE-LAR-11252-1	c 05	N75-25914 *	NASA-CASE-LAR-12183-1	c 36	N79-18307 *
NASA-CASE-LAR-10489-1	c 31	N74-18124 *	NASA-CASE-LAR-11263-1	c 35	N75-33369 *	NASA-CASE-LAR-12195-1	c 31	N81-27324 *
NASA-CASE-LAR-10489-2	c 31	N74-32920 *	NASA-CASE-LAR-11310-1	c 07	N77-28118 *	NASA-CASE-LAR-12196-1	c 33	N81-26358 *
NASA-CASE-LAR-10496-1	c 14	N72-22437 *	NASA-CASE-LAR-11326-1	c 35	N75-33368 *	NASA-CASE-LAR-12205-1	c 44	N80-20810 *
NASA-CASE-LAR-10503-1	c 09	N72-21248 *	NASA-CASE-LAR-11341-1	c 36	N75-19655 *	NASA-CASE-LAR-12215-1	c 08	N79-23097 *
NASA-CASE-LAR-10507-1	c 11	N72-25284 *	NASA-CASE-LAR-11352-1	c 33	N75-26245 *	NASA-CASE-LAR-12230-1	c 35	N79-14347 *
NASA-CASE-LAR-10511-1	c 09	N72-29172 *	NASA-CASE-LAR-11354-1	c 35	N75-27330 *	NASA-CASE-LAR-12250-1	c 14	N81-26161 *
NASA-CASE-LAR-10513-1	c 07	N72-25170 *	NASA-CASE-LAR-11361-1	c 44	N77-22607 *	NASA-CASE-LAR-12251-1	c 74	N80-27185 *
NASA-CASE-LAR-10523-1	c 14	N72-22444 *	NASA-CASE-LAR-11370-1	c 35	N80-28686 *	NASA-CASE-LAR-12259-2	c 54	N86-22112 *
NASA-CASE-LAR-10539-1	c 17	N73-12547 *	NASA-CASE-LAR-11387-1	c 04	N76-20114 *	NASA-CASE-LAR-12260-1	c 35	N79-10390 *
NASA-CASE-LAR-10541-1	c 15	N72-32487 *	NASA-CASE-LAR-11387-2	c 04	N77-19056 *	NASA-CASE-LAR-12261-1	c 02	N80-20224 *
NASA-CASE-LAR-10544-1	c 37	N74-13178 *	NASA-CASE-LAR-11389-1	c 33	N77-26387 *	NASA-CASE-LAR-12264-1	c 15	N78-32168 *
NASA-CASE-LAR-10545-1	c 09	N72-21244 *	NASA-CASE-LAR-11390-1	c 32	N77-21267 *	NASA-CASE-LAR-12268-1	c 08	N81-24106 *
NASA-CASE-LAR-10546-1	c 11	N72-25287 *	NASA-CASE-LAR-11397-1	c 27	N75-29263 *	NASA-CASE-LAR-12269-1	c 35	N80-18358 *
NASA-CASE-LAR-10547-1	c 31	N74-13177 *	NASA-CASE-LAR-11405-1	c 45	N76-31714 *	NASA-CASE-LAR-12275-1	c 35	N79-18296 *
NASA-CASE-LAR-10549-1	c 31	N73-13898 *	NASA-CASE-LAR-11428-1	c 35	N74-34857 *	NASA-CASE-LAR-12285-1	c 35	N80-28687 *
NASA-CASE-LAR-10550-1	c 09	N74-30597 *	NASA-CASE-LAR-11434-1	c 35	N76-22509 *	NASA-CASE-LAR-12304-1	c 35	N80-20559 *
NASA-CASE-LAR-10551-1	c 25	N74-12813 *	NASA-CASE-LAR-11435-1	c 35	N76-15432 *	NASA-CASE-LAR-12308-1	c 35	N81-29407 *
NASA-CASE-LAR-10557	c 02	N72-11018 *	NASA-CASE-LAR-11458-1	c 35	N76-16392 *	NASA-CASE-LAR-12315-1	c 37	N82-24490 *
NASA-CASE-LAR-10574-1	c 11	N73-13257 *	NASA-CASE-LAR-11465-1	c 37	N76-21554 *	NASA-CASE-LAR-12320-1	c 54	N81-27806 *
NASA-CASE-LAR-10578-1	c 12	N73-25262 *	NASA-CASE-LAR-11476-1	c 07	N76-27232 *	NASA-CASE-LAR-12321-1	c 35	N82-24470 *
NASA-CASE-LAR-10585-1	c 02	N76-22154 *	NASA-CASE-LAR-11490-1	c 39	N78-16387 *	NASA-CASE-LAR-12326-1	c 02	N81-14968 *
NASA-CASE-LAR-10586-1	c 19	N74-15089 *	NASA-CASE-LAR-11500-1	c 35	N76-24523 *	NASA-CASE-LAR-12328-1	c 36	N82-32712 *
NASA-CASE-LAR-10590-1	c 15	N70-26819 *	NASA-CASE-LAR-11549-1	c 37	N77-11397 *	NASA-CASE-LAR-12344-1	c 43	N80-18498 *
NASA-CASE-LAR-10595-1	c 35	N74-16135 *	NASA-CASE-LAR-11551-1	c 44	N80-29834 *	NASA-CASE-LAR-12361-1	c 37	N83-19091 *
NASA-CASE-LAR-10612-1	c 12	N73-28144 *	NASA-CASE-LAR-11552-1	c 35	N76-14429 *	NASA-CASE-LAR-12363-1	c 35	N82-31659 *
NASA-CASE-LAR-10620-1	c 09	N72-25255 *	NASA-CASE-LAR-11563-1	c 37	N77-23482 *	NASA-CASE-LAR-12363-2	c 33	N83-24763 *
NASA-CASE-LAR-10623-1	c 14	N73-30395 *	NASA-CASE-LAR-11570-1	c 34	N76-18364 *	NASA-CASE-LAR-12372-1	c 37	N82-18601 *
NASA-CASE-LAR-10626-1	c 19	N74-21015 *	NASA-CASE-LAR-11575-1	c 02	N76-16014 *	NASA-CASE-LAR-12375-1	c 32	N79-24203 *
NASA-CASE-LAR-10629-1	c 35	N75-33367 *	NASA-CASE-LAR-11607-1	c 32	N77-14292 *	NASA-CASE-LAR-12393-1	c 34	N83-34221 *
NASA-CASE-LAR-10634-1	c 37	N74-18123 *	NASA-CASE-LAR-11617-2	c 35	N78-32397 *	NASA-CASE-LAR-12396-1	c 02	N84-28732 *
NASA-CASE-LAR-10642-1	c 07	N74-31270 *	NASA-CASE-LAR-11645-1	c 02	N77-10001 *	NASA-CASE-LAR-12406-1	c 05	N81-26114 *
NASA-CASE-LAR-10668-1	c 06	N73-16106 *	NASA-CASE-LAR-11648-1	c 35	N77-14407 *	NASA-CASE-LAR-12412-1	c 08	N82-24205 *
NASA-CASE-LAR-10670-1	c 06	N73-30097 *	NASA-CASE-LAR-11649-1	c 51	N77-27677 *	NASA-CASE-LAR-12441-1	c 09	N82-23254 *
NASA-CASE-LAR-10670-2	c 15	N74-27360 *	NASA-CASE-LAR-11658-1	c 37	N77-14478 *	NASA-CASE-LAR-12458-1	c 44	N83-21503 *
NASA-CASE-LAR-10682-1	c 02	N73-26004 *	NASA-CASE-LAR-11667-1	c 52	N76-19785 *	NASA-CASE-LAR-12465-1	c 33	N82-26572 *
NASA-CASE-LAR-10686	c 14	N71-28935 *	NASA-CASE-LAR-11674-1	c 07	N76-18117 *	NASA-CASE-LAR-12468-1	c 08	N82-32373 *
NASA-CASE-LAR-10688-1	c 37	N74-21056 *	NASA-CASE-LAR-11675-1	c 45	N76-17656 *	NASA-CASE-LAR-12469-1	c 35	N83-21311 *
NASA-CASE-LAR-10717-1	c 21	N73-30641 *	NASA-CASE-LAR-11688-1	c 24	N82-26384 *	NASA-CASE-LAR-12471-1	c 52	N82-29862 *
NASA-CASE-LAR-10726-1	c 14	N73-20475 *	NASA-CASE-LAR-11690-1	c 35	N80-14371 *	NASA-CASE-LAR-12474-1	c 35	N82-26628 *
NASA-CASE-LAR-10728-1	c 14	N73-12445 *	NASA-CASE-LAR-11695-2	c 37	N81-24443 *	NASA-CASE-LAR-12482-1	c 37	N82-32732 *
NASA-CASE-LAR-10730-1	c 33	N74-10223 *	NASA-CASE-LAR-11709-1	c 37	N76-27567 *	NASA-CASE-LAR-12495-1	c 44	N83-28573 *
NASA-CASE-LAR-10739-1	c 14	N73-16484 *	NASA-CASE-LAR-11711-1	c 74	N78-17866 *	NASA-CASE-LAR-12513-1	c 44	N82-32841 *
NASA-CASE-LAR-10753-1	c 08	N74-30421 *	NASA-CASE-LAR-11726-1	c 37	N76-27568 *	NASA-CASE-LAR-12518-1	c 06	N86-27280 *
NASA-CASE-LAR-10756-1	c 32	N73-26910 *	NASA-CASE-LAR-11729-1	c 34	N79-12359 *	NASA-CASE-LAR-12520-1	c 51	N81-28698 *
NASA-CASE-LAR-10765-1	c 32	N73-20740 *	NASA-CASE-LAR-11745-1	c 32	N80-29539 *	NASA-CASE-LAR-12531-1	c 35	N83-29651 *
NASA-CASE-LAR-10773-3	c 51	N77-25769 *	NASA-CASE-LAR-11782-1	c 74	N77-20882 *	NASA-CASE-LAR-12532-1	c 09	N82-11088 *
NASA-CASE-LAR-10774	c 10	N71-13545 *	NASA-CASE-LAR-11797-1	c 05	N81-19087 *	NASA-CASE-LAR-12541-1	c 05	N84-22551 *
NASA-CASE-LAR-10776-1	c 02	N74-10034 *	NASA-CASE-LAR-11821-1	c 26	N80-28492 *	NASA-CASE-LAR-12552-1	c 35	N82-11431 *
NASA-CASE-LAR-10782-1	c 31	N74-14133 *	NASA-CASE-LAR-11825-1	c 35	N77-22449 *	NASA-CASE-LAR-12562-1	c 08	N81-26152 *
NASA-CASE-LAR-10782-2	c 31	N75-13111 *	NASA-CASE-LAR-11827-1	c 32	N77-10392 *	NASA-CASE-LAR-12588-1	c 34	N85-21568 *
NASA-CASE-LAR-10799-2	c 34	N76-17317 *	NASA-CASE-LAR-11828-1	c 27	N78-32261 *	NASA-CASE-LAR-12592-1	c 36	N82-13415 *
NASA-CASE-LAR-10800-1	c 33	N72-27959 *	NASA-CASE-LAR-11855-1	c 37	N81-14319 *	NASA-CASE-LAR-12595-1	c 33	N82-26571 *
NASA-CASE-LAR-10805-2	c 34	N77-18382 *	NASA-CASE-LAR-11859-1	c 35	N79-14349 *	NASA-CASE-LAR-12602-1	c 39	N83-32081 *
NASA-CASE-LAR-10806-1	c 35	N74-32877 *	NASA-CASE-LAR-11868-2	c 08	N79-14108 *	NASA-CASE-LAR-12615-1	c 05	N84-12154 *
NASA-CASE-LAR-10812-1	c 09	N74-17955 *	NASA-CASE-LAR-11869-1	c 74	N78-27904 *	NASA-CASE-LAR-12620-1	c 24	N82-32417 *
NASA-CASE-LAR-10815-1	c 16	N72-22520 *	NASA-CASE-LAR-11883-1	c 09	N77-27131 *	NASA-CASE-LAR-12624-1	c 01	N83-35992 *
NASA-CASE-LAR-10836-1	c 26	N72-27784 *	NASA-CASE-LAR-11889-1	c 35	N79-26372 *	NASA-CASE-LAR-12630-1	c 06	N84-27733 *
NASA-CASE-LAR-10841-1	c 31	N74-27900 *	NASA-CASE-LAR-11889-2	c 37	N78-27424 *	NASA-CASE-LAR-12633-1	c 33	N82-24416 *
NASA-CASE-LAR-10855-1	c 14	N73-13415 *	NASA-CASE-LAR-11898-1	c 24	N78-10214 *	NASA-CASE-LAR-12638-1	c 04	N84-14132 *
NASA-CASE-LAR-10862-1	c 35	N74-15092 *	NASA-CASE-LAR-11898-2	c 24	N78-17149 *	NASA-CASE-LAR-12640-1	c 27	N82-11206 *
NASA-CASE-LAR-10868-1	c 33	N74-11050 *	NASA-CASE-LAR-11900-1	c 37	N79-14382 *	NASA-CASE-LAR-12642-1	c 27	N81-29229 *
NASA-CASE-LAR-10894-1	c 18	N73-14584 *	NASA-CASE-LAR-11902-1	c 27	N78-17206 *	NASA-CASE-LAR-12644-1	c 37	N84-28084 *
NASA-CASE-LAR-10900-1	c 37	N74-23064 *	NASA-CASE-LAR-11903-2	c 71	N84-14873 *	NASA-CASE-LAR-12650-1	c 52	N84-28388 *
NASA-CASE-LAR-10907-1	c 35	N76-29551 *	NASA-CASE-LAR-11919-1	c 07	N78-27121 *	NASA-CASE-LAR-12650-2	c 52	N84-28389 *
NASA-CASE-LAR-10910-1	c 35	N74-13132 *	NASA-CASE-LAR-11922-1	c 25	N79-24073 *	NASA-CASE-LAR-12654-1	c 33	N83-36357 *
NASA-CASE-LAR-10913	c 14	N72-16282 *	NASA-CASE-LAR-11932-1	c 05	N78-32086 *	NASA-CASE-LAR-12659-1	c 33	N82-26570 *
NASA-CASE-LAR-10941-1	c 37	N74-21057 *	NASA-CASE-LAR-11970-2	c 08	N81-19130 *	NASA-CASE-LAR-12686-1	c 35	N84-14491 *
NASA-CASE-LAR-10941-2	c 37	N79-13364 *	NASA-CASE-LAR-11973-1	c 35	N77-27384 *	NASA-CASE-LAR-12705-1	c 25	N82-26396 *
NASA-CASE-LAR-10953-1	c 17	N73-27446 *	NASA-CASE-LAR-11995-1	c 28	N77-10213 *	NASA-CASE-LAR-12706-1	c 35	N84-12444 *
NASA-CASE-LAR-10970-1	c 33	N76-14372 *	NASA-CASE-LAR-11999-1	c 44	N80-18552 *	NASA-CASE-LAR-12709-1	c 35	N82-28604 *
NASA-CASE-LAR-10994-1	c 24	N75-13032 *	NASA-CASE-LAR-12007-3	c 35	N84-16523 *	NASA-CASE-LAR-12719-1	c 44	N83-34449 *
NASA-CASE-LAR-11021-1	c 32	N76-14321 *	NASA-CASE-LAR-12009-1	c 44	N78-15560 *	NASA-CASE-LAR-12720-1	c 44	N83-21504 *
NASA-CASE-LAR-11027-1	c 35	N74-18088 *	NASA-CASE-LAR-12016-1	c 39	N78-15512 *	NASA-CASE-LAR-12723-1	c 27	N85-20123 *
NASA-CASE-LAR-11042-1	c 33	N75-27252 *	NASA-CASE-LAR-12018-1	c 20	N78-24275 *	NASA-CASE-LAR-12723-2	c 27	N84-22746 *
NASA-CASE-LAR-11051-1	c 15	N76-14158 *	NASA-CASE-LAR-12019-1	c 24	N78-17150 *	NASA-CASE-LAR-12728-1	c 35	N83-32026 *

NASA-CASE-LAR-12738-2	c 37	N85-30335 *	NASA-CASE-LAR-13384-1	c 27	N86-20561 *	NASA-CASE-LAR-13870-1-CU	c 05	N92-21587 *
NASA-CASE-LAR-12743-1	c 35	N84-28019	NASA-CASE-LAR-13387-1	c 74	N88-25302 *	NASA-CASE-LAR-13870-1	c 05	N90-15094 *
NASA-CASE-LAR-12751-1	c 15	N84-16231 *	NASA-CASE-LAR-13388-1	c 25	N91-28321 *	NASA-CASE-LAR-13875-1	c 05	N91-27156 *
NASA-CASE-LAR-12772-1	c 33	N83-16626 *	NASA-CASE-LAR-13392-1-CU	c 19	N91-14412	NASA-CASE-LAR-13887-1	c 36	N92-16290 *
NASA-CASE-LAR-12775-1	c 27	N83-28240 *	NASA-CASE-LAR-13393-1	c 54	N87-29118 *	NASA-CASE-LAR-13889-1	c 39	N88-30160 *
NASA-CASE-LAR-12775-2	c 27	N85-21349 *	NASA-CASE-LAR-13407-1	c 33	N87-28831 *	NASA-CASE-LAR-13898-1	c 37	N91-15544 *
NASA-CASE-LAR-12785-1	c 37	N84-16561 *	NASA-CASE-LAR-13411-1-SB	c 18	N88-23828 *	NASA-CASE-LAR-13901-1-NP	c 52	N90-21519 *
NASA-CASE-LAR-12786-1	c 37	N84-28085 *	NASA-CASE-LAR-13434-1	c 37	N90-23742 *	NASA-CASE-LAR-13901-2	c 52	N92-11621 *
NASA-CASE-LAR-12787-2	c 08	N85-19985 *	NASA-CASE-LAR-13435-1	c 37	N88-23981 *	NASA-CASE-LAR-13902-1	c 27	N90-23546 *
NASA-CASE-LAR-12801-1	c 37	N88-23982 *	NASA-CASE-LAR-13436-1-CU	c 02	N88-23759 *	NASA-CASE-LAR-13910-2-CU	c 27	N91-31307 *
NASA-CASE-LAR-12807-1	c 24	N84-11214 *	NASA-CASE-LAR-13438-1	c 31	N89-12786 *	NASA-CASE-LAR-13924-1-CU	c 26	N89-28621 *
NASA-CASE-LAR-12838-1	c 27	N83-34040 *	NASA-CASE-LAR-13440-1	c 71	N87-21653 *	NASA-CASE-LAR-13925-1	c 27	N89-25334 *
NASA-CASE-LAR-12843-1	c 02	N84-11136 *	NASA-CASE-LAR-13444-1-CU	c 27	N87-22847 *	NASA-CASE-LAR-13925-1	c 27	N92-21711 *
NASA-CASE-LAR-12847-1	c 33	N83-16633 *	NASA-CASE-LAR-13444-2-CU	c 23	N89-12667 *	NASA-CASE-LAR-13926-1	c 37	N90-22042 *
NASA-CASE-LAR-12852-1	c 05	N89-11738 *	NASA-CASE-LAR-13447-1	c 27	N88-18725 *	NASA-CASE-LAR-13944-1	c 35	N92-11336 *
NASA-CASE-LAR-12858-1	c 27	N83-34041 *	NASA-CASE-LAR-13448-1	c 27	N90-21198 *	NASA-CASE-LAR-13952-1-SB	c 34	N90-19534 *
NASA-CASE-LAR-12858-2	c 27	N85-20124 *	NASA-CASE-LAR-13450-1	c 27	N87-28657 *	NASA-CASE-LAR-13952-2-SB	c 34	N91-31596 *
NASA-CASE-LAR-12862-1	c 27	N84-27886 *	NASA-CASE-LAR-13452-1	c 27	N87-22848 *	NASA-CASE-LAR-13963-1	c 76	N90-24150 *
NASA-CASE-LAR-12864-1	c 37	N85-30336 *	NASA-CASE-LAR-13453-1	c 37	N88-14361 *	NASA-CASE-LAR-13965-1-CU	c 23	N90-21118 *
NASA-CASE-LAR-12868-1	c 37	N85-21651 *	NASA-CASE-LAR-13455-1	c 32	N87-21206 *	NASA-CASE-LAR-13965-2-CU	c 23	N91-14418 *
NASA-CASE-LAR-12870-1	c 36	N84-16542 *	NASA-CASE-LAR-13458-1	c 35	N88-23967 *	NASA-CASE-LAR-13966-1	c 71	N91-27914 *
NASA-CASE-LAR-12881-1	c 27	N84-14323 *	NASA-CASE-LAR-13465-1	c 27	N90-23544 *	NASA-CASE-LAR-13968-1	c 71	N91-27913 *
NASA-CASE-LAR-12882-1	c 35	N84-12445 *	NASA-CASE-LAR-13470-1	c 03	N88-14083 *	NASA-CASE-LAR-13981-1	c 37	N91-21539 *
NASA-CASE-LAR-12883-1	c 71	N83-17235 *	NASA-CASE-LAR-13474-1-SB	c 26	N87-25455 *	NASA-CASE-LAR-13983-1	c 05	N90-23390 *
NASA-CASE-LAR-12884-1	c 18	N84-33450 *	NASA-CASE-LAR-13476-1-CU	c 76	N87-29360 *	NASA-CASE-LAR-13985-1	c 24	N91-14430 *
NASA-CASE-LAR-12887-3	c 24	N90-21822 *	NASA-CASE-LAR-13486-1	c 16	N90-22584 *	NASA-CASE-LAR-13988-1	c 23	N89-11814 *
NASA-CASE-LAR-12893-1	c 76	N85-30923 *	NASA-CASE-LAR-13489-1	c 18	N87-27713 *	NASA-CASE-LAR-13989-1	c 35	N91-13694 *
NASA-CASE-LAR-12894-1	c 27	N85-20125 *	NASA-CASE-LAR-13490-1	c 18	N91-27199 *	NASA-CASE-LAR-13992-1-CU	c 23	N91-27220 *
NASA-CASE-LAR-12923-1	c 37	N84-12493 *	NASA-CASE-LAR-13506-1	c 27	N89-12741 *	NASA-CASE-LAR-13996-1-SB	c 25	N90-15161 *
NASA-CASE-LAR-12931-1	c 27	N84-22747 *	NASA-CASE-LAR-13508-1	c 35	N88-23962 *	NASA-CASE-LAR-14001-1	c 27	N90-15260 *
NASA-CASE-LAR-12931-2	c 27	N86-21675 *	NASA-CASE-LAR-13508-1	c 35	N92-21710 *	NASA-CASE-LAR-14031-1	c 05	N90-20079 *
NASA-CASE-LAR-12950-1	c 09	N84-34448 *	NASA-CASE-LAR-13511-1	c 05	N88-23765 *	NASA-CASE-LAR-14033-1	c 34	N90-27072 *
NASA-CASE-LAR-12958-1	c 44	N84-23019 *	NASA-CASE-LAR-13512-1	c 35	N87-28884 *	NASA-CASE-LAR-14036-1	c 27	N91-13562 *
NASA-CASE-LAR-12966-1	c 35	N85-30282 *	NASA-CASE-LAR-13519-1	c 35	N88-23963 *	NASA-CASE-LAR-14046-1	c 31	N92-11219 *
NASA-CASE-LAR-12967-1	c 35	N84-22932 *	NASA-CASE-LAR-13522-1-SB	c 09	N87-25334 *	NASA-CASE-LAR-14048-1	c 31	N92-11220 *
NASA-CASE-LAR-12968-1	c 60	N86-21154 *	NASA-CASE-LAR-13528-1	c 25	N88-29002 *	NASA-CASE-LAR-14049-1	c 07	N89-23466 *
NASA-CASE-LAR-12971-1	c 47	N84-28292 *	NASA-CASE-LAR-13532-1	c 34	N91-14562 *	NASA-CASE-LAR-14050-1	c 31	N90-21216 *
NASA-CASE-LAR-12979-1	c 05	N85-21147 *	NASA-CASE-LAR-13542-2-SB	c 25	N90-20154 *	NASA-CASE-LAR-14056-1	c 35	N90-23713 *
NASA-CASE-LAR-12980-1	c 27	N84-22749 *	NASA-CASE-LAR-13548-1	c 09	N91-28175 *	NASA-CASE-LAR-14062-1	c 37	N90-27114 *
NASA-CASE-LAR-12984-1	c 06	N87-22678 *	NASA-CASE-LAR-13552-1-CU	c 33	N89-14385 *	NASA-CASE-LAR-14078-1-CU	c 34	N90-27071 *
NASA-CASE-LAR-12995-1	c 35	N84-22933 *	NASA-CASE-LAR-13554-1	c 02	N89-12551 *	NASA-CASE-LAR-14088-1	c 35	N91-13686 *
NASA-CASE-LAR-13006-1	c 17	N87-16863 *	NASA-CASE-LAR-13555-1	c 23	N86-32526 *	NASA-CASE-LAR-14096-1	c 31	N91-31476 *
NASA-CASE-LAR-13009-1	c 37	N85-29285 *	NASA-CASE-LAR-13562-1	c 24	N90-25196 *	NASA-CASE-LAR-14101-1	c 27	N91-15403 *
NASA-CASE-LAR-13009-2	c 37	N87-22976 *	NASA-CASE-LAR-13562-2	c 24	N91-25199 *	NASA-CASE-LAR-14107-1	c 24	N91-25200 *
NASA-CASE-LAR-13014-1	c 09	N85-21178 *	NASA-CASE-LAR-13563-1	c 34	N91-23410 *	NASA-CASE-LAR-14116-1	c 05	N91-14345 *
NASA-CASE-LAR-13019-1	c 07	N85-35194 *	NASA-CASE-LAR-13564-1	c 35	N87-25558 *	NASA-CASE-LAR-14142-1	c 37	N90-27116 *
NASA-CASE-LAR-13028-1	c 52	N85-30618 *	NASA-CASE-LAR-13569-1	c 35	N89-12841 *	NASA-CASE-LAR-14145-1	c 27	N90-26954 *
NASA-CASE-LAR-13040-1	c 37	N85-29286 *	NASA-CASE-LAR-13580-1	c 37	N91-21541 *	NASA-CASE-LAR-14149-1-SB	c 14	N91-21176 *
NASA-CASE-LAR-13053-1	c 43	N83-29783 *	NASA-CASE-LAR-13586-1	c 16	N92-10035 *	NASA-CASE-LAR-14155-1-SB	c 25	N90-23517 *
NASA-CASE-LAR-13065-1	c 35	N85-20295 *	NASA-CASE-LAR-13597-1-CU	c 25	N87-23713 *	NASA-CASE-LAR-14155-2-SB	c 25	N91-21270 *
NASA-CASE-LAR-13076-1	c 08	N85-35200 *	NASA-CASE-LAR-13601-1-CU	c 27	N89-14337 *	NASA-CASE-LAR-14156-1	c 16	N90-16781 *
NASA-CASE-LAR-13081-1	c 37	N86-32737 *	NASA-CASE-LAR-13616-1	c 74	N91-31950 *	NASA-CASE-LAR-14159-1-CU	c 27	N90-26953 *
NASA-CASE-LAR-13098-1	c 31	N86-19479 *	NASA-CASE-LAR-13628-1	c 35	N90-23707 *	NASA-CASE-LAR-14162-1	c 27	N90-15259 *
NASA-CASE-LAR-13100-1	c 37	N87-23982 *	NASA-CASE-LAR-13629-1	c 09	N91-14356 *	NASA-CASE-LAR-14163-1	c 27	N91-13559 *
NASA-CASE-LAR-13111-1-CU	c 71	N87-21652 *	NASA-CASE-LAR-13630-1	c 08	N88-23809 *	NASA-CASE-LAR-14168-1	c 39	N92-12302 *
NASA-CASE-LAR-13113-1	c 31	N87-25492 *	NASA-CASE-LAR-13632-1	c 26	N87-29650 *	NASA-CASE-LAR-14169-1	c 37	N92-17677 *
NASA-CASE-LAR-13117-1	c 37	N86-25789 *	NASA-CASE-LAR-13633-1	c 27	N87-24575 *	NASA-CASE-LAR-14181-1	c 76	N91-21911 *
NASA-CASE-LAR-13118-2	c 27	N87-16907 *	NASA-CASE-LAR-13638-1	c 31	N90-19427 *	NASA-CASE-LAR-14188-1	c 27	N90-23545 *
NASA-CASE-LAR-13134-2	c 07	N87-16828 *	NASA-CASE-LAR-13645-1	c 27	N91-28424 *	NASA-CASE-LAR-14188-2	c 23	N91-14419 *
NASA-CASE-LAR-13135-1	c 27	N86-19456 *	NASA-CASE-LAR-13662-1	c 37	N88-14359 *	NASA-CASE-LAR-14194-1	c 24	N90-15148 *
NASA-CASE-LAR-13150-1	c 24	N87-27742 *	NASA-CASE-LAR-13678-1	c 76	N90-24168 *	NASA-CASE-LAR-14198-1	c 27	N90-26956 *
NASA-CASE-LAR-13151-1	c 33	N87-21235 *	NASA-CASE-LAR-13680-1	c 35	N87-25561 *	NASA-CASE-LAR-14203-1	c 36	N89-28817 *
NASA-CASE-LAR-13153-1	c 71	N86-21276 *	NASA-CASE-LAR-13689-1-NP	c 35	N87-23941 *	NASA-CASE-LAR-14206-1	c 27	N91-28425 *
NASA-CASE-LAR-13155-1	c 05	N86-19310 *	NASA-CASE-LAR-13696-1	c 37	N90-20409 *	NASA-CASE-LAR-14207-1	c 35	N91-14590 *
NASA-CASE-LAR-13169-1	c 37	N86-25791 *	NASA-CASE-LAR-13705-1	c 39	N88-25011 *	NASA-CASE-LAR-14212-1-CU	c 05	N91-31140 *
NASA-CASE-LAR-13173-1	c 05	N87-14314 *	NASA-CASE-LAR-13710-1	c 35	N90-17117 *	NASA-CASE-LAR-14231-1	c 24	N92-10070 *
NASA-CASE-LAR-13181-1	c 31	N85-29083 *	NASA-CASE-LAR-13719-1	c 37	N89-12867 *	NASA-CASE-LAR-14239-1	c 26	N91-13527 *
NASA-CASE-LAR-13198-1	c 37	N87-23983 *	NASA-CASE-LAR-13724-1	c 38	N90-23756 *	NASA-CASE-LAR-14250-1-SB	c 72	N91-27936 *
NASA-CASE-LAR-13202-1	c 33	N88-23942 *	NASA-CASE-LAR-13732-1	c 27	N87-25474 *	NASA-CASE-LAR-14271-1-CU	c 27	N91-13558 *
NASA-CASE-LAR-13215-1	c 02	N89-14224 *	NASA-CASE-LAR-13734-1-CU	c 09	N90-20096 *	NASA-CASE-LAR-14272-1-CU	c 14	N91-28184 *
NASA-CASE-LAR-13220-1	c 34	N86-12547 *	NASA-CASE-LAR-13738-1	c 18	N87-29586 *	NASA-CASE-LAR-14322-1	c 02	N91-27139 *
NASA-CASE-LAR-13225-1	c 24	N90-25197 *	NASA-CASE-LAR-13740-1	c 35	N90-22770 *	NASA-CASE-LAR-14330-1-CU	c 27	N91-13560 *
NASA-CASE-LAR-13226-1	c 27	N85-34282 *	NASA-CASE-LAR-13741-1-SB	c 25	N90-20180 *	NASA-CASE-LAR-14338-1	c 24	N90-26881 *
NASA-CASE-LAR-13230-1	c 24	N84-34571 *	NASA-CASE-LAR-13742-1	c 02	N91-16999 *	NASA-CASE-LAR-14339-1	c 27	N90-26955 *
NASA-CASE-LAR-13233-1	c 05	N84-33400 *	NASA-CASE-LAR-13742-1	c 02	N92-21588 *	NASA-CASE-LAR-14340-1-CU	c 35	N91-13684 *
NASA-CASE-LAR-13243-1	c 35	N85-34375 *	NASA-CASE-LAR-13747-1-CU	c 32	N89-28672 *	NASA-CASE-LAR-14340-1-CU	c 35	N92-21586 *
NASA-CASE-LAR-13250-1	c 37	N86-27630 *	NASA-CASE-LAR-13761-1	c 34	N90-20323 *	NASA-CASE-LAR-14346-1	c 27	N92-22044 *
NASA-CASE-LAR-13254-1-CU	c 35	N86-29174 *	NASA-CASE-LAR-13772-1	c 36	N89-28816 *	NASA-CASE-LAR-14351-1	c 27	N91-13561 *
NASA-CASE-LAR-13255-1	c 02	N87-16793 *	NASA-CASE-LAR-13773-1	c 20	N90-19298 *	NASA-CASE-LAR-14352-1	c 37	N91-32511 *
NASA-CASE-LAR-13256-1	c 36	N86-29204 *	NASA-CASE-LAR-13775-1	c 35	N90-23706 *	NASA-CASE-LAR-14361-1	c 71	N91-16707 *
NASA-CASE-LAR-13257-1	c 25	N84-32447 *	NASA-CASE-LAR-13776-1	c 35	N88-29149 *	NASA-CASE-LAR-14395-1-CU	c 33	N91-28490 *
NASA-CASE-LAR-13262-1	c 23	N85-28973 *	NASA-CASE-LAR-13777-1	c 05	N90-20078 *	NASA-CASE-LAR-14402-1-CU	c 74	N91-15874 *
NASA-CASE-LAR-13268-1	c 35	N87-14669 *	NASA-CASE-LAR-13780-1	c 18	N91-13481 *	NASA-CASE-LAR-14419-1	c 35	N92-10185 *
NASA-CASE-LAR-13273-2	c 33	N90-20320 *	NASA-CASE-LAR-13785-1	c 70	N91-21824 *	NASA-CASE-LAR-14424-1-SB	c 09	N91-32149 *
NASA-CASE-LAR-13280-1	c 08	N87-20999 *	NASA-CASE-LAR-13797-1	c 35	N88-30108 *	NASA-CASE-LAR-14427-1	c 23	N91-23237 *
NASA-CASE-LAR-13286-1	c 02	N88-14071 *	NASA-CASE-LAR-13798-1	c 32	N89-25363 *	NASA-CASE-LAR-14435-1-CU	c 09	N91-26159 *
NASA-CASE-LAR-13292-1	c 27	N86-24841 *	NASA-CASE-LAR-13816-1	c 35	N90-22025 *	NASA-CASE-LAR-14440-1	c 23	N92-10066 *
NASA-CASE-LAR-13294-1	c 35	N86-32696 *	NASA-CASE-LAR-13817-1	c 26	N90-21170 *	NASA-CASE-LAR-14446-1	c 31	N91-28454 *
NASA-CASE-LAR-13300-1-CU	c 35	N89-14407 *	NASA-CASE-LAR-13821-1	c 27	N90-16950 *	NASA-CASE-LAR-14454-1	c 25	N91-32196 *
NASA-CASE-LAR-13306-1	c 82	N87-29372 *	NASA-CASE-LAR-13823-1	c 35	N92-10182 *	NASA-CASE-LAR-14457-1-CU	c 27	N92-11198 *
NASA-CASE-LAR-13310-1	c 32	N87-14559 *	NASA-CASE-LAR-13825-1	c 31	N92-16162 *	NASA-CASE-LAR-14459-1	c 24	N91-15334 *
NASA-CASE-LAR-13316-1	c 27	N86-27450 *	NASA-CASE-LAR-13826-1	c 35	N88-29150 *	NASA-CASE-LAR-14465-1	c 37	N91-14614 *
NASA-CASE-LAR-13316-2	c 27	N87-14515 *	NASA-CASE-LAR-13832-1	c 28	N91-28444 *	NASA-CASE-LAR-14480-1-CU	c 39	N92-11374 *
NASA-CASE-LAR-13318-1	c 27	N87-14516 *	NASA-CASE-LAR-13853-1	c 35	N89-14423 *	NASA-CASE-LAR-14481-1	c 25	N92-16043 *
NASA-CASE-LAR-13351-1	c 27	N86-31727 *	NASA-CASE-LAR-13854-1-CU	c 04	N91-31120 *	NASA-CASE-LAR-14483-1	c 31	N91-28455 *
NASA-CASE-LAR-13353-1	c 27	N86-29039 *	NASA-CASE-LAR-13855-1	c 37	N91-14615 *	NASA-CASE-LAR-14487-1	c 27	N92-11200 *

REPORT NUMBER INDEX

NASA-CASE-LEW-13171-1

NASA-CASE-LAR-14489-1	c 37	N91-27562 *	NASA-CASE-LEW-11274-1	c 37	N75-21631 *	NASA-CASE-LEW-12389-2	c 07	N78-18066 *
NASA-CASE-LAR-14508-1-CU	c 39	N92-10202 *	NASA-CASE-LEW-11286-1	c 07	N74-27490 *	NASA-CASE-LEW-12389-3	c 07	N79-14096 *
NASA-CASE-LAR-14515-1-CU	c 37	N91-28580 *	NASA-CASE-LEW-11325-1	c 06	N73-27980 *	NASA-CASE-LEW-12390-1	c 07	N78-17056 *
NASA-CASE-LAR-14520-1-SB	c 02	N92-10008 *	NASA-CASE-LEW-11326-1	c 23	N73-30665 *	NASA-CASE-LEW-12419-1	c 07	N77-14025 *
NASA-CASE-LAR-14538-1	c 27	N92-11201 *	NASA-CASE-LEW-11358	c 03	N71-26084 *	NASA-CASE-LEW-12441-1	c 34	N79-13289 *
NASA-CASE-LAR-14542-1	c 37	N92-11354 *	NASA-CASE-LEW-11359-2	c 03	N72-20034 *	NASA-CASE-LEW-12441-2	c 34	N80-24573 *
NASA-CASE-LAR-14547-1	c 34	N92-17909 *	NASA-CASE-LEW-11359	c 03	N71-28579 *	NASA-CASE-LEW-12441-3	c 44	N81-24519 *
NASA-CASE-LAR-14556-1	c 36	N91-25392 *	NASA-CASE-LEW-11387-1	c 37	N74-18128 *	NASA-CASE-LEW-12443-1	c 44	N83-32175 *
NASA-CASE-LAR-14567-1-CU	c 33	N92-12174 *	NASA-CASE-LEW-11388-1	c 15	N73-32358 *	NASA-CASE-LEW-12444-1	c 33	N77-28385 *
NASA-CASE-LAR-14579-1	c 35	N91-28546 *	NASA-CASE-LEW-11388-2	c 37	N74-21055 *	NASA-CASE-LEW-12445-1	c 37	N81-22360 *
NASA-CASE-LAR-14588-1-CU	c 74	N91-23889 *	NASA-CASE-LEW-11390-2	c 25	N76-27383 *	NASA-CASE-LEW-12452-1	c 07	N78-25089 *
NASA-CASE-LAR-14594-1	c 34	N92-17888 *	NASA-CASE-LEW-11390-3	c 25	N76-29379 *	NASA-CASE-LEW-12465-1	c 25	N78-25148 *
NASA-CASE-LAR-14608-1	c 27	N92-17676 *	NASA-CASE-LEW-11402-1	c 07	N74-28226 *	NASA-CASE-LEW-12477-1	c 37	N77-32501 *
NASA-CASE-LAR-14626-1	c 38	N92-17859 *	NASA-CASE-LEW-11484-1	c 24	N75-33181 *	NASA-CASE-LEW-12493-1	c 24	N81-17170 *
NASA-CASE-LAR-14639-1	c 27	N92-11199 *	NASA-CASE-LEW-11496-1	c 44	N77-14580 *	NASA-CASE-LEW-12493-2	c 24	N81-26179 *
NASA-CASE-LAR-14685-1	c 02	N91-28135 *	NASA-CASE-LEW-11531	c 15	N71-14932 *	NASA-CASE-LEW-12496-1	c 07	N78-33101 *
NASA-CASE-LAR-14741-1	c 39	N92-11384 *	NASA-CASE-LEW-11549-1	c 44	N77-19571 *	NASA-CASE-LEW-12508-1	c 34	N78-17335 *
NASA-CASE-LAR-14763-1	c 27	N92-12121 *	NASA-CASE-LEW-11569-1	c 07	N74-15453 *	NASA-CASE-LEW-12508-3	c 34	N83-29625 *
NASA-CASE-LAR-14773-1-CU	c 27	N92-10105 *	NASA-CASE-LEW-11573-1	c 26	N77-28265 *	NASA-CASE-LEW-12513-1	c 25	N79-22235 *
			NASA-CASE-LEW-11581-1	c 54	N75-13531 *	NASA-CASE-LEW-12527-1	c 37	N77-32500 *
NASA-CASE-LEW-10106-1	c 28	N71-26642 *	NASA-CASE-LEW-11583-1	c 35	N79-17192 *	NASA-CASE-LEW-12541-1	c 44	N78-25529 *
NASA-CASE-LEW-10155-1	c 09	N71-29035 *	NASA-CASE-LEW-11593-1	c 20	N76-14190 *	NASA-CASE-LEW-12542-2	c 26	N79-22271 *
NASA-CASE-LEW-10199-1	c 27	N74-23125 *	NASA-CASE-LEW-11617-1	c 33	N74-10195 *	NASA-CASE-LEW-12542-3	c 26	N80-32484 *
NASA-CASE-LEW-10210-1	c 28	N71-26781 *	NASA-CASE-LEW-11632-2	c 35	N75-13213 *	NASA-CASE-LEW-12550-1	c 24	N77-19170 *
NASA-CASE-LEW-10219-1	c 18	N71-28729 *	NASA-CASE-LEW-11646-1	c 20	N74-31269 *	NASA-CASE-LEW-12552-1	c 44	N78-25527 *
NASA-CASE-LEW-10233	c 10	N71-27126 *	NASA-CASE-LEW-11669-1	c 05	N73-27062 *	NASA-CASE-LEW-12552-2	c 44	N79-11472 *
NASA-CASE-LEW-10250-1	c 22	N71-28759 *	NASA-CASE-LEW-11672-1	c 37	N74-27904 *	NASA-CASE-LEW-12554-1	c 34	N78-18355 *
NASA-CASE-LEW-10278-1	c 15	N71-28582 *	NASA-CASE-LEW-11676-1	c 37	N76-22541 *	NASA-CASE-LEW-12569-1	c 37	N79-10418 *
NASA-CASE-LEW-10281-1	c 14	N72-17327 *	NASA-CASE-LEW-11694-1	c 20	N75-18310 *	NASA-CASE-LEW-12582-1	c 76	N83-34796 *
NASA-CASE-LEW-10286-1	c 28	N71-28915 *	NASA-CASE-LEW-11694-2	c 37	N76-14461 *	NASA-CASE-LEW-12586-1	c 44	N80-14472 *
NASA-CASE-LEW-10326-3	c 37	N74-10474 *	NASA-CASE-LEW-11696-1	c 37	N75-13261 *	NASA-CASE-LEW-12587-1	c 44	N77-31601 *
NASA-CASE-LEW-10327	c 17	N71-33408 *	NASA-CASE-LEW-11696-2	c 26	N75-19408 *	NASA-CASE-LEW-12590-1	c 37	N84-22958 *
NASA-CASE-LEW-10330-1	c 09	N72-27226 *	NASA-CASE-LEW-11726-1	c 26	N73-26752 *	NASA-CASE-LEW-12594-2	c 07	N81-19116 *
NASA-CASE-LEW-10345-1	c 10	N71-25899 *	NASA-CASE-LEW-11855-1	c 07	N78-25090 *	NASA-CASE-LEW-12608-1	c 07	N77-27116 *
NASA-CASE-LEW-10359-2	c 33	N73-25952 *	NASA-CASE-LEW-11860-1	c 37	N76-18458 *	NASA-CASE-LEW-12619-1	c 24	N77-19171 *
NASA-CASE-LEW-10359	c 33	N72-25911 *	NASA-CASE-LEW-11866-1	c 72	N76-15860 *	NASA-CASE-LEW-12649-1	c 44	N78-25530 *
NASA-CASE-LEW-10364-1	c 09	N71-13522 *	NASA-CASE-LEW-11873-1	c 37	N79-22475 *	NASA-CASE-LEW-12658-1	c 71	N79-14871 *
NASA-CASE-LEW-10374-1	c 28	N73-13773 *	NASA-CASE-LEW-11876-1	c 20	N76-21276 *	NASA-CASE-LEW-12661-1	c 35	N79-14345 *
NASA-CASE-LEW-10387	c 09	N72-22201 *	NASA-CASE-LEW-11877-1	c 34	N78-27357 *	NASA-CASE-LEW-12668-1	c 52	N78-14773 *
NASA-CASE-LEW-10393-1	c 17	N71-15468 *	NASA-CASE-LEW-11881-1	c 33	N77-17354 *	NASA-CASE-LEW-12718-1	c 34	N78-25351 *
NASA-CASE-LEW-10424-2-2	c 18	N72-25539 *	NASA-CASE-LEW-11890-1	c 05	N79-24976 *	NASA-CASE-LEW-12723-1	c 52	N80-18690 *
NASA-CASE-LEW-10433-1	c 09	N72-22197 *	NASA-CASE-LEW-11915-1	c 35	N76-14431 *	NASA-CASE-LEW-12760-1	c 07	N77-17059 *
NASA-CASE-LEW-10436-1	c 17	N73-28515 *	NASA-CASE-LEW-11925-1	c 37	N75-31446 *	NASA-CASE-LEW-12775-1	c 44	N79-11468 *
NASA-CASE-LEW-10450-1	c 15	N72-25448 *	NASA-CASE-LEW-11980-1	c 24	N76-22309 *	NASA-CASE-LEW-12780-1	c 20	N79-20179 *
NASA-CASE-LEW-10489-1	c 15	N72-25447 *	NASA-CASE-LEW-11930-3	c 24	N80-33482 *	NASA-CASE-LEW-12785-1	c 37	N78-24545 *
NASA-CASE-LEW-10518-1	c 24	N72-33681 *	NASA-CASE-LEW-11930-4	c 24	N79-17916 *	NASA-CASE-LEW-12791-1	c 33	N78-32341 *
NASA-CASE-LEW-10518-3	c 25	N78-27226 *	NASA-CASE-LEW-11938-1	c 33	N76-15373 *	NASA-CASE-LEW-12793-1	c 37	N79-11403 *
NASA-CASE-LEW-10533-1	c 15	N73-28515 *	NASA-CASE-LEW-11949-1	c 37	N76-29588 *	NASA-CASE-LEW-12806-2	c 44	N81-12542 *
NASA-CASE-LEW-10533-2	c 37	N74-11300 *	NASA-CASE-LEW-11978-1	c 33	N77-26385 *	NASA-CASE-LEW-12819-1	c 44	N79-11467 *
NASA-CASE-LEW-10689-1	c 28	N71-26173 *	NASA-CASE-LEW-11981-1	c 31	N78-17237 *	NASA-CASE-LEW-12819-2	c 44	N79-18444 *
NASA-CASE-LEW-10698-1	c 37	N74-21063 *	NASA-CASE-LEW-11981-2	c 34	N79-20336 *	NASA-CASE-LEW-12830-1	c 07	N77-23106 *
NASA-CASE-LEW-10770-1	c 28	N72-22770 *	NASA-CASE-LEW-12013-1	c 33	N79-10339 *	NASA-CASE-LEW-12876-2	c 27	N83-29392 *
NASA-CASE-LEW-10794-1	c 06	N72-17093 *	NASA-CASE-LEW-12039-1	c 44	N78-14625 *	NASA-CASE-LEW-12892-1	c 44	N83-14692 *
NASA-CASE-LEW-10805-1	c 15	N73-13465 *	NASA-CASE-LEW-12048-1	c 20	N77-20162 *	NASA-CASE-LEW-12905-1	c 26	N78-18183 *
NASA-CASE-LEW-10805-2	c 37	N74-13179 *	NASA-CASE-LEW-12050-1	c 35	N77-32454 *	NASA-CASE-LEW-12906-1	c 26	N77-32279 *
NASA-CASE-LEW-10805-3	c 26	N74-10521 *	NASA-CASE-LEW-12051-1	c 52	N75-33640 *	NASA-CASE-LEW-12907-2	c 07	N81-19115 *
NASA-CASE-LEW-10814-1	c 28	N70-35422 *	NASA-CASE-LEW-12053-1	c 27	N78-15276 *	NASA-CASE-LEW-12916-1	c 37	N78-17384 *
NASA-CASE-LEW-10835-1	c 28	N72-22771 *	NASA-CASE-LEW-12053-2	c 27	N79-28307 *	NASA-CASE-LEW-12917-1	c 07	N78-18067 *
NASA-CASE-LEW-10856-1	c 15	N72-22490 *	NASA-CASE-LEW-12078-1	c 35	N75-30503 *	NASA-CASE-LEW-12918-1	c 44	N81-24521 *
NASA-CASE-LEW-10874-1	c 17	N72-22535 *	NASA-CASE-LEW-12081-1	c 28	N78-24365 *	NASA-CASE-LEW-12919-1	c 24	N83-10117 *
NASA-CASE-LEW-10906-1	c 25	N74-30502 *	NASA-CASE-LEW-12081-2	c 28	N80-20402 *	NASA-CASE-LEW-12919-2	c 70	N84-28565 *
NASA-CASE-LEW-10920-1	c 17	N73-24569 *	NASA-CASE-LEW-12081-3	c 28	N81-14103 *	NASA-CASE-LEW-12933-1	c 27	N81-19296 *
NASA-CASE-LEW-10950-1	c 33	N74-27683 *	NASA-CASE-LEW-12082-1	c 20	N77-10148 *	NASA-CASE-LEW-12938-1	c 07	N82-32366 *
NASA-CASE-LEW-10965-1	c 15	N72-25452 *	NASA-CASE-LEW-12083-1	c 37	N78-13436 *	NASA-CASE-LEW-12940-1	c 72	N80-33186 *
NASA-CASE-LEW-10981-1	c 35	N74-21018 *	NASA-CASE-LEW-12094-1	c 76	N76-25049 *	NASA-CASE-LEW-12941-1	c 26	N83-10170 *
NASA-CASE-LEW-11005-1	c 09	N72-21243 *	NASA-CASE-LEW-12095-1	c 26	N78-18182 *	NASA-CASE-LEW-12950-1	c 34	N82-11399 *
NASA-CASE-LEW-11015	c 26	N73-32571 *	NASA-CASE-LEW-12118-1	c 24	N77-27188 *	NASA-CASE-LEW-12950-2	c 34	N85-29179 *
NASA-CASE-LEW-11026-1	c 15	N73-33383 *	NASA-CASE-LEW-12119-1	c 37	N80-28711 *	NASA-CASE-LEW-12955-1	c 52	N80-14684 *
NASA-CASE-LEW-11058-1	c 20	N74-13502 *	NASA-CASE-LEW-12119-2	c 37	N81-26447 *	NASA-CASE-LEW-12971-1	c 07	N80-18039 *
NASA-CASE-LEW-11065-2	c 44	N76-14600 *	NASA-CASE-LEW-12131-1	c 37	N79-18318 *	NASA-CASE-LEW-12972-1	c 44	N79-25481 *
NASA-CASE-LEW-11069-1	c 44	N74-14784 *	NASA-CASE-LEW-12131-2	c 37	N80-26658 *	NASA-CASE-LEW-12982-1	c 37	N81-19455 *
NASA-CASE-LEW-11072-1	c 14	N73-24472 *	NASA-CASE-LEW-12131-3	c 37	N82-19540 *	NASA-CASE-LEW-12989-1	c 37	N82-12442 *
NASA-CASE-LEW-11072-2	c 35	N76-15434 *	NASA-CASE-LEW-12137-1	c 25	N78-10224 *	NASA-CASE-LEW-12990-1	c 07	N81-29129 *
NASA-CASE-LEW-11076-1	c 37	N74-21061 *	NASA-CASE-LEW-12159-1	c 44	N78-19599 *	NASA-CASE-LEW-12991-1	c 37	N81-24442 *
NASA-CASE-LEW-11076-2	c 37	N74-32921 *	NASA-CASE-LEW-12164-1	c 36	N77-32478 *	NASA-CASE-LEW-12995-1	c 37	N84-33808 *
NASA-CASE-LEW-11076-3	c 37	N75-30562 *	NASA-CASE-LEW-12174-2	c 35	N79-14346 *	NASA-CASE-LEW-13027-1	c 27	N80-24437 *
NASA-CASE-LEW-11076-4	c 37	N76-15461 *	NASA-CASE-LEW-12185-1	c 44	N78-25528 *	NASA-CASE-LEW-13028-1	c 27	N82-33521 *
NASA-CASE-LEW-11087-1	c 15	N73-30458 *	NASA-CASE-LEW-12217-1	c 43	N78-14452 *	NASA-CASE-LEW-13050-1	c 07	N79-14095 *
NASA-CASE-LEW-11087-2	c 37	N74-15128 *	NASA-CASE-LEW-12220-1	c 44	N77-14581 *	NASA-CASE-LEW-13088-1	c 26	N81-25188 *
NASA-CASE-LEW-11087-3	c 37	N74-21064 *	NASA-CASE-LEW-12232-1	c 07	N79-10057 *	NASA-CASE-LEW-13101-2	c 23	N81-29160 *
NASA-CASE-LEW-11101-1	c 31	N73-32750 *	NASA-CASE-LEW-12236-2	c 44	N79-14528 *	NASA-CASE-LEW-13102-1	c 33	N85-29144 *
NASA-CASE-LEW-11118-1	c 20	N74-32919 *	NASA-CASE-LEW-12245-1	c 26	N77-20201 *	NASA-CASE-LEW-13103-1	c 27	N80-32516 *
NASA-CASE-LEW-11118-2	c 20	N76-14191 *	NASA-CASE-LEW-12252-1	c 34	N79-13288 *	NASA-CASE-LEW-13107-1	c 52	N83-21785 *
NASA-CASE-LEW-11152-1	c 15	N73-32359 *	NASA-CASE-LEW-12253-1	c 74	N83-19596 *	NASA-CASE-LEW-13107-2	c 52	N84-23095 *
NASA-CASE-LEW-11158-1	c 37	N77-28486 *	NASA-CASE-LEW-12258-1	c 52	N77-28716 *	NASA-CASE-LEW-13120-1	c 27	N82-28440 *
NASA-CASE-LEW-11159-1	c 14	N73-28488 *	NASA-CASE-LEW-12270-1	c 26	N77-32280 *	NASA-CASE-LEW-13131-1	c 44	N83-10494 *
NASA-CASE-LEW-11162-1	c 33	N74-12913 *	NASA-CASE-LEW-12274-1	c 37	N80-31790 *	NASA-CASE-LEW-13132-1	c 27	N83-29388 *
NASA-CASE-LEW-11169-1	c 37	N76-23570 *	NASA-CASE-LEW-12296-1	c 33	N82-26568 *	NASA-CASE-LEW-13135-2	c 27	N81-24257 *
NASA-CASE-LEW-11179-1	c 27	N76-16229 *	NASA-CASE-LEW-12312-1	c 07	N77-32148 *	NASA-CASE-LEW-13142-1	c 07	N83-36029 *
NASA-CASE-LEW-11180-1	c 25	N73-25760 *	NASA-CASE-LEW-12313-1	c 37	N78-10468 *	NASA-CASE-LEW-13142-2	c 07	N86-20389 *
NASA-CASE-LEW-11187-1	c 28	N73-19793 *	NASA-CASE-LEW-12317-1	c 07	N78-17055 *	NASA-CASE-LEW-13148-1	c 33	N80-20487 *
NASA-CASE-LEW-11188-1	c 02	N74-20646 *	NASA-CASE-LEW-12321-1	c 37	N78-10467 *	NASA-CASE-LEW-13148-2	c 44	N81-29524 *
NASA-CASE-LEW-11192-1	c 09	N73-13208 *	NASA-CASE-LEW-12358-1	c 44	N79-17313 *	NASA-CASE-LEW-13150-1	c 44	N79-26474 *
NASA-CASE-LEW-11227-1	c 73	N75-30876 *	NASA-CASE-LEW-12358-2	c 25	N82-21268 *	NASA-CASE-LEW-13169-1	c 26	N82-29415 *
NASA-CASE-LEW-11262-1	c 27	N74-13270 *	NASA-CASE-LEW-12364-1	c 44	N77-22606 *	NASA-CASE-LEW-13169-2	c 26	N82-30371 *
NASA-CASE-LEW-11267-1	c 17	N73-32414 *	NASA-CASE-LEW-12378-1	c 07	N79-14097 *	NASA-CASE-LEW-13171-1	c 44	N82-29708 *

NASA-CASE-LEW-13171-2	c 44	N83-32176 *	NASA-CASE-LEW-14345-3	c 23	N91-17141 *	NASA-CASE-MFS-13046	c 07	N71-19433 *
NASA-CASE-LEW-13174-1	c 34	N83-27144 *	NASA-CASE-LEW-14345-4	c 23	N91-25185 *	NASA-CASE-MFS-13130	c 10	N72-17173 *
NASA-CASE-LEW-13199-1	c 07	N82-26293 *	NASA-CASE-LEW-14345-6	c 23	N92-17882 *	NASA-CASE-MFS-13532	c 18	N72-17532 *
NASA-CASE-LEW-13201-1	c 07	N81-14999 *	NASA-CASE-LEW-14346-1	c 23	N90-19300 *	NASA-CASE-MFS-13686	c 15	N71-18132 *
NASA-CASE-LEW-13226-1	c 27	N81-17260 *	NASA-CASE-LEW-14374-1	c 09	N88-28939 *	NASA-CASE-MFS-13687-2	c 09	N72-22198 *
NASA-CASE-LEW-13246-1	c 44	N83-27344 *	NASA-CASE-LEW-14392-1	c 27	N87-28656 *	NASA-CASE-MFS-13687	c 09	N71-28691 *
NASA-CASE-LEW-13268-1	c 27	N82-29453 *	NASA-CASE-LEW-14392-2	c 27	N89-29538 *	NASA-CASE-MFS-13929	c 15	N71-27091 *
NASA-CASE-LEW-13268-2	c 37	N82-26674 *	NASA-CASE-LEW-14472-1	c 24	N91-15320 *	NASA-CASE-MFS-13994-1	c 06	N71-11240 *
NASA-CASE-LEW-13269-1	c 18	N83-20996 *	NASA-CASE-LEW-14474-1	c 27	N91-28423 *	NASA-CASE-MFS-13994-2	c 06	N72-25148 *
NASA-CASE-LEW-13269-2	c 37	N84-22957 *	NASA-CASE-LEW-14474-2	c 27	N92-11186 *	NASA-CASE-MFS-14017	c 14	N71-26627 *
NASA-CASE-LEW-13282-1	c 33	N82-24415 *	NASA-CASE-LEW-14520-1	c 33	N90-22724 *	NASA-CASE-MFS-14023	c 33	N71-25351 *
NASA-CASE-LEW-13286-1	c 33	N84-14422 *	NASA-CASE-LEW-14586-1	c 07	N83-31603 *	NASA-CASE-MFS-14114-2	c 09	N71-24807 *
NASA-CASE-LEW-13324-2	c 24	N85-21266 *	NASA-CASE-LEW-14672-1	c 37	N91-27560 *	NASA-CASE-MFS-14114	c 33	N71-27862 *
NASA-CASE-LEW-13339-1	c 26	N82-31505 *	NASA-CASE-LEW-14676-1	c 33	N91-31529 *	NASA-CASE-MFS-14216	c 14	N73-13418 *
NASA-CASE-LEW-13343-1	c 27	N82-28441 *	NASA-CASE-LEW-14676-2	c 76	N90-17454 *	NASA-CASE-MFS-14253	c 33	N71-24858 *
NASA-CASE-LEW-13343	c 26	N83-31795 *	NASA-CASE-LEW-14679-1	c 27	N91-25296 *	NASA-CASE-MFS-14259	c 15	N71-19213 *
NASA-CASE-LEW-13349-1	c 26	N84-22734 *	NASA-CASE-LEW-14695-1	c 37	N90-23751 *	NASA-CASE-MFS-14322	c 08	N71-18692 *
NASA-CASE-LEW-1335901	c 27	N83-31855 *	NASA-CASE-LEW-14698-2	c 27	N92-10090 *	NASA-CASE-MFS-14405	c 15	N72-28495 *
NASA-CASE-LEW-13400-1	c 44	N82-31764 *	NASA-CASE-LEW-14719-1	c 24	N90-23493 *	NASA-CASE-MFS-14610	c 09	N71-28886 *
NASA-CASE-LEW-13401-1	c 44	N82-29709 *	NASA-CASE-LEW-14731-1	c 44	N91-13802 *	NASA-CASE-MFS-14671	c 05	N71-12341 *
NASA-CASE-LEW-13401-2	c 44	N83-32177 *	NASA-CASE-LEW-14731-1	c 44	N92-22037 *	NASA-CASE-MFS-14685	c 31	N71-15689 *
NASA-CASE-LEW-13414-1	c 44	N85-20530 *	NASA-CASE-LEW-14734-1	c 24	N89-23623 *	NASA-CASE-MFS-14710	c 09	N72-22195 *
NASA-CASE-LEW-13426-1	c 25	N84-16276 *	NASA-CASE-LEW-14746-1	c 33	N91-14552 *	NASA-CASE-MFS-14711	c 15	N71-26185 *
NASA-CASE-LEW-13429-1	c 33	N83-31952 *	NASA-CASE-LEW-14776-1	c 37	N91-21540 *	NASA-CASE-MFS-14741	c 09	N70-20737 *
NASA-CASE-LEW-13450-1	c 31	N83-35177 *	NASA-CASE-LEW-14795-1	c 74	N91-21871 *	NASA-CASE-MFS-14772	c 15	N71-17692 *
NASA-CASE-LEW-13495-1	c 33	N84-33663 *	NASA-CASE-LEW-14844-1	c 35	N90-22024 *	NASA-CASE-MFS-14971	c 15	N71-24984 *
NASA-CASE-LEW-13504-1	c 25	N83-13188 *	NASA-CASE-LEW-14846-1	c 20	N92-10054 *	NASA-CASE-MFS-15063	c 14	N72-25412 *
NASA-CASE-LEW-13506-1	c 37	N85-33490 *	NASA-CASE-LEW-14846-2	c 20	N91-26200 *	NASA-CASE-MFS-15162	c 14	N72-32452 *
NASA-CASE-LEW-13524-1	c 07	N84-33410 *	NASA-CASE-LEW-14848-1	c 14	N91-27175 *	NASA-CASE-MFS-15218-1	c 37	N77-19457 *
NASA-CASE-LEW-13526-1	c 36	N84-22944 *	NASA-CASE-LEW-14862-1	c 37	N91-14617 *	NASA-CASE-MFS-15218-2	c 18	N84-22609 *
NASA-CASE-LEW-13556-1	c 44	N81-27615 *	NASA-CASE-LEW-14878-1	c 74	N91-13996 *	NASA-CASE-MFS-15670-1	c 33	N82-33634 *
NASA-CASE-LEW-13562-2	c 07	N85-35195 *	NASA-CASE-LEW-14880-1	c 35	N90-10415 *	NASA-CASE-MFS-16570-1	c 05	N73-32013 *
NASA-CASE-LEW-13570-1	c 33	N84-16452 *	NASA-CASE-LEW-14880-1	c 35	N92-21723 *	NASA-CASE-MFS-16609-3	c 03	N76-32140 *
NASA-CASE-LEW-13598-1	c 35	N84-22930 *	NASA-CASE-LEW-14887-1	c 37	N91-27561 *	NASA-CASE-MFS-18100	c 15	N72-11390 *
NASA-CASE-LEW-13609-1	c 25	N90-11824 *	NASA-CASE-LEW-14901-1	c 75	N91-25875 *	NASA-CASE-MFS-18495	c 15	N72-11385 *
NASA-CASE-LEW-13620-1	c 44	N83-13579 *	NASA-CASE-LEW-14902-1	c 24	N91-27244 *	NASA-CASE-MFS-19193-1	c 37	N75-19686 *
NASA-CASE-LEW-13622-1	c 07	N84-22559 *	NASA-CASE-LEW-14921-1	c 24	N91-13502 *	NASA-CASE-MFS-19194-1	c 37	N76-14460 *
NASA-CASE-LEW-13639-1	c 26	N84-33555 *	NASA-CASE-LEW-14945-1	c 32	N91-13598 *	NASA-CASE-MFS-19220-1	c 20	N76-22296 *
NASA-CASE-LEW-13639-2	c 26	N84-27855 *	NASA-CASE-LEW-14945-2	c 32	N92-10128 *	NASA-CASE-MFS-19259-1	c 36	N78-14380 *
NASA-CASE-LEW-13653-1	c 44	N84-28205 *	NASA-CASE-LEW-14949-1	c 44	N91-23617 *	NASA-CASE-MFS-19287-1	c 34	N77-30399 *
NASA-CASE-LEW-13654-1	c 07	N84-22560 *	NASA-CASE-LEW-14959-1	c 44	N91-27614 *	NASA-CASE-MFS-19796-1	c 37	N86-32736 *
NASA-CASE-LEW-13670-1	c 37	N86-19606 *	NASA-CASE-LEW-14965-1	c 37	N91-13732 *	NASA-CASE-MFS-20011	c 18	N72-22566 *
NASA-CASE-LEW-13717-1	c 37	N85-30333 *	NASA-CASE-LEW-14967-1	c 35	N91-31608 *	NASA-CASE-MFS-20044	c 14	N71-28993 *
NASA-CASE-LEW-13736-1	c 33	N84-27974 *	NASA-CASE-LEW-14967-2	c 35	N91-23460 *	NASA-CASE-MFS-20068	c 07	N71-27191 *
NASA-CASE-LEW-13758-1	c 24	N84-27829 *	NASA-CASE-LEW-14967-2	c 35	N92-22038 *	NASA-CASE-MFS-20074	c 16	N71-15565 *
NASA-CASE-LEW-13770-1	c 27	N84-27885 *	NASA-CASE-LEW-14973-1	c 44	N92-10222 *	NASA-CASE-MFS-20075	c 09	N71-26133 *
NASA-CASE-LEW-13770-2	c 25	N85-28982 *	NASA-CASE-LEW-14984-1	c 27	N92-16122 *	NASA-CASE-MFS-20095	c 24	N72-11595 *
NASA-CASE-LEW-13770-3	c 27	N85-21350 *	NASA-CASE-LEW-14990-1-CU	c 24	N91-17145 *	NASA-CASE-MFS-20096	c 14	N71-30026 *
NASA-CASE-LEW-13770-4	c 27	N85-21351 *	NASA-CASE-LEW-14999-1	c 24	N91-13500 *	NASA-CASE-MFS-20125	c 16	N72-13437 *
NASA-CASE-LEW-13770-5	c 27	N85-21352 *	NASA-CASE-LEW-14999-1	c 24	N92-21725 *	NASA-CASE-MFS-20130	c 28	N71-27585 *
NASA-CASE-LEW-13770-6	c 25	N85-30039 *	NASA-CASE-LEW-14999-2	c 27	N91-26376 *	NASA-CASE-MFS-20180	c 16	N72-12440 *
NASA-CASE-LEW-13773-2	c 33	N86-20671 *	NASA-CASE-LEW-15020-1	c 27	N91-15412 *	NASA-CASE-MFS-20207-1	c 09	N73-32107 *
NASA-CASE-LEW-13822-1	c 44	N86-25874 *	NASA-CASE-LEW-15020-2	c 24	N91-25202 *	NASA-CASE-MFS-20240	c 14	N71-26788 *
NASA-CASE-LEW-13827-1	c 44	N85-21768 *	NASA-CASE-LEW-15027-1	c 27	N91-13566 *	NASA-CASE-MFS-20242	c 14	N73-19421 *
NASA-CASE-LEW-13828-1	c 24	N85-30027 *	NASA-CASE-LEW-15043-1	c 27	N91-32230 *	NASA-CASE-MFS-20243	c 23	N73-13662 *
NASA-CASE-LEW-13833-1	c 33	N85-21492 *	NASA-CASE-LEW-15077-1	c 24	N92-16025 *	NASA-CASE-MFS-20249	c 15	N72-11386 *
NASA-CASE-LEW-13834-1	c 26	N87-14482 *	NASA-CASE-LEW-15077-2	c 24	N91-28289 *	NASA-CASE-MFS-20261	c 14	N71-27005 *
NASA-CASE-LEW-13837-1	c 24	N84-22695 *	NASA-CASE-LEW-15085-1	c 37	N92-22043 *	NASA-CASE-MFS-20284-1	c 52	N74-12778 *
NASA-CASE-LEW-13837-2	c 24	N85-21267 *	NASA-CASE-LEW-15086-1	c 37	N92-16318 *	NASA-CASE-MFS-20299	c 15	N72-11392 *
NASA-CASE-LEW-13864-1	c 27	N86-19457 *	NASA-CASE-LEW-15094-1	c 07	N91-23180 *	NASA-CASE-MFS-20317	c 15	N73-13463 *
NASA-CASE-LEW-13881-1	c 20	N85-21256 *	NASA-CASE-LEW-15155-1	c 27	N91-26375 *	NASA-CASE-MFS-20325	c 28	N71-27095 *
NASA-CASE-LEW-13899-1	c 31	N87-21160 *	NASA-CASE-LEW-15164-1	c 27	N91-25298 *	NASA-CASE-MFS-20332-2	c 05	N73-25125 *
NASA-CASE-LEW-13914-1	c 37	N85-33489 *	NASA-CASE-LEW-15164-2	c 27	N91-32229 *	NASA-CASE-MFS-20332	c 05	N72-20097 *
NASA-CASE-LEW-13922-1	c 33	N86-20672 *	NASA-CASE-LEW-15196-1	c 37	N91-26543 *	NASA-CASE-MFS-20333	c 09	N71-13486 *
NASA-CASE-LEW-13923-1	c 26	N85-35267 *	NASA-CASE-LEW-15200-1	c 20	N91-32167 *	NASA-CASE-MFS-20335-1	c 35	N74-10415 *
NASA-CASE-LEW-13934-1	c 35	N83-35338 *	NASA-CASE-LEW-15216-1	c 37	N92-17678 *	NASA-CASE-MFS-20355	c 33	N71-25353 *
NASA-CASE-LEW-13935-1	c 33	N87-21234 *	NASA-CASE-LEW-15222-1	c 76	N91-26966 *	NASA-CASE-MFS-20385	c 09	N71-24904 *
NASA-CASE-LEW-13981-2	c 33	N86-21742 *	NASA-CASE-LEW-15223-1	c 76	N91-26967 *	NASA-CASE-MFS-20386	c 21	N71-19212 *
NASA-CASE-LEW-14028-1	c 44	N86-19721 *	NASA-CASE-LEW-15235-1	c 34	N92-10167 *	NASA-CASE-MFS-20395	c 15	N71-24903 *
NASA-CASE-LEW-14035-1	c 07	N84-24577 *	NASA-CASE-LEW-15241-1	c 24	N92-17861 *	NASA-CASE-MFS-20400	c 31	N71-18611 *
NASA-CASE-LEW-14037-1	c 20	N87-16875 *	NASA-CASE-LEW-15359-1	c 25	N92-17902 *	NASA-CASE-MFS-20407	c 09	N73-19235 *
NASA-CASE-LEW-14039-1	c 34	N85-33433 *	NASA-CASE-LEW-23169-2	c 26	N81-16209 *	NASA-CASE-MFS-20408	c 18	N73-12604 *
NASA-CASE-LEW-14057-1	c 24	N85-35233 *				NASA-CASE-MFS-20410	c 15	N71-19214 *
NASA-CASE-LEW-14072-1	c 27	N86-19458 *	NASA-CASE-MFS-06074	c 15	N71-20393 *	NASA-CASE-MFS-20413	c 15	N72-21463 *
NASA-CASE-LEW-14072-2	c 27	N86-32569 *	NASA-CASE-MFS-07369	c 15	N71-20443 *	NASA-CASE-MFS-20418	c 14	N73-24473 *
NASA-CASE-LEW-14072-3	c 27	N87-23736 *	NASA-CASE-MFS-10068	c 10	N71-25139 *	NASA-CASE-MFS-20423	c 15	N72-11388 *
NASA-CASE-LEW-14077-1	c 44	N85-34441 *	NASA-CASE-MFS-10340	c 15	N71-17628 *	NASA-CASE-MFS-20433	c 15	N72-28496 *
NASA-CASE-LEW-14080-1	c 31	N85-20153 *	NASA-CASE-MFS-10412	c 12	N71-17578 *	NASA-CASE-MFS-20434	c 11	N72-25288 *
NASA-CASE-LEW-14104-2	c 26	N88-14179 *	NASA-CASE-MFS-10506	c 06	N73-30100 *	NASA-CASE-MFS-20453	c 15	N71-29133 *
NASA-CASE-LEW-14108-1	c 33	N87-28832 *	NASA-CASE-MFS-10507	c 06	N73-30101 *	NASA-CASE-MFS-20482	c 15	N72-22492 *
NASA-CASE-LEW-14124-1	c 35	N90-23712 *	NASA-CASE-MFS-10509	c 06	N73-30103 *	NASA-CASE-MFS-20485	c 14	N72-11365 *
NASA-CASE-LEW-14127-1	c 33	N86-20680 *	NASA-CASE-MFS-10512	c 06	N73-30099 *	NASA-CASE-MFS-20486-2	c 27	N74-17283 *
NASA-CASE-LEW-14130-1	c 31	N86-32587 *	NASA-CASE-MFS-10555	c 11	N71-19494 *	NASA-CASE-MFS-20506-1	c 35	N75-12273 *
NASA-CASE-LEW-14134-2	c 26	N89-14303 *	NASA-CASE-MFS-10946-1	c 31	N79-21226 *	NASA-CASE-MFS-20509	c 11	N72-17183 *
NASA-CASE-LEW-14162-1	c 34	N91-13668 *	NASA-CASE-MFS-11132	c 15	N71-17649 *	NASA-CASE-MFS-20523	c 14	N72-27412 *
NASA-CASE-LEW-14162-2	c 24	N91-25201 *	NASA-CASE-MFS-11133	c 31	N71-16222 *	NASA-CASE-MFS-20546-2	c 14	N73-30389 *
NASA-CASE-LEW-14170-1	c 37	N86-25790 *	NASA-CASE-MFS-11204	c 14	N71-29134 *	NASA-CASE-MFS-20586	c 15	N71-17686 *
NASA-CASE-LEW-14177-1	c 44	N86-32875 *	NASA-CASE-MFS-11279	c 16	N71-20400 *	NASA-CASE-MFS-20589	c 25	N72-32688 *
NASA-CASE-LEW-14196-2	c 37	N87-25585 *	NASA-CASE-MFS-11492	c 06	N73-30102 *	NASA-CASE-MFS-20596	c 14	N72-17324 *
NASA-CASE-LEW-14203-1	c 27	N91-15402 *	NASA-CASE-MFS-11497	c 28	N71-16224 *	NASA-CASE-MFS-20607-1	c 37	N76-19436 *
NASA-CASE-LEW-14212-1	c 37	N88-23978 *	NASA-CASE-MFS-11537	c 14	N71-20442 *	NASA-CASE-MFS-20619	c 28	N72-11708 *
NASA-CASE-LEW-14262-1	c 26	N87-28647 *	NASA-CASE-MFS-12750	c 27	N71-16223 *	NASA-CASE-MFS-20620	c 11	N72-27262 *
NASA-CASE-LEW-14295-1	c 31	N91-15424 *	NASA-CASE-MFS-12805	c 15	N71-17805 *	NASA-CASE-MFS-20642	c 14	N72-21407 *
NASA-CASE-LEW-14297-1	c 35	N89-12048 *	NASA-CASE-MFS-12806	c 14	N71-17588 *	NASA-CASE-MFS-20645-1	c 37	N74-23070 *
NASA-CASE-LEW-14345-1	c 23	N88-26404 *	NASA-CASE-MFS-12827	c 14	N71-17656 *	NASA-CASE-MFS-20658-1	c 14	N73-30386 *
NASA-CASE-LEW-14345-2	c 25	N90-23497 *	NASA-CASE-MFS-12915	c 11	N71-17600 *	NASA-CASE-MFS-20673	c 14	N73-20476 *

REPORT NUMBER INDEX

NASA-CASE-MFS-25942-1

NASA-CASE-MFS-20675	c 26	N73-26751 *	NASA-CASE-MFS-22133-1	c 33	N74-26977 *	NASA-CASE-MFS-23675-1	c 89	N79-10969 *
NASA-CASE-MFS-20698-2	c 15	N73-19457 *	NASA-CASE-MFS-22145-1	c 75	N75-13625 *	NASA-CASE-MFS-23696-1	c 54	N81-26718 *
NASA-CASE-MFS-20698	c 15	N72-20446 *	NASA-CASE-MFS-22145-2	c 75	N76-17951 *	NASA-CASE-MFS-23717-1	c 52	N81-25660 *
NASA-CASE-MFS-20710	c 11	N72-23215 *	NASA-CASE-MFS-22189-1	c 35	N75-19615 *	NASA-CASE-MFS-23720-1	c 43	N80-23711 *
NASA-CASE-MFS-20730-1	c 39	N74-13131 *	NASA-CASE-MFS-22208-1	c 33	N75-26244 *	NASA-CASE-MFS-23720-2	c 43	N80-14423 *
NASA-CASE-MFS-20757	c 09	N72-28225 *	NASA-CASE-MFS-22234-1	c 32	N79-10264 *	NASA-CASE-MFS-23720-3	c 43	N79-25443 *
NASA-CASE-MFS-20760	c 14	N72-33377 *	NASA-CASE-MFS-22283-1	c 37	N75-33395 *	NASA-CASE-MFS-23721-1	c 31	N79-28370 *
NASA-CASE-MFS-20761-1	c 44	N74-27519 *	NASA-CASE-MFS-22287-1	c 75	N76-14931 *	NASA-CASE-MFS-23725-1	c 43	N79-31706 *
NASA-CASE-MFS-20767-1	c 38	N74-15130 *	NASA-CASE-MFS-22323-1	c 37	N76-14463 *	NASA-CASE-MFS-23726-1	c 43	N79-26439 *
NASA-CASE-MFS-20774	c 14	N73-19420 *	NASA-CASE-MFS-22324-1	c 27	N75-27160 *	NASA-CASE-MFS-23727-1	c 44	N80-14473 *
NASA-CASE-MFS-20775-1	c 31	N75-12161 *	NASA-CASE-MFS-22342-1	c 33	N75-30428 *	NASA-CASE-MFS-23775-1	c 44	N82-16474 *
NASA-CASE-MFS-20809	c 23	N73-13660 *	NASA-CASE-MFS-22343-1	c 33	N74-34638 *	NASA-CASE-MFS-23776-1	c 33	N82-28545 *
NASA-CASE-MFS-20823-1	c 16	N73-30476 *	NASA-CASE-MFS-22355-1	c 23	N76-15268 *	NASA-CASE-MFS-23777-1	c 37	N80-32716 *
NASA-CASE-MFS-20829	c 12	N72-21310 *	NASA-CASE-MFS-22356-1	c 23	N75-30256 *	NASA-CASE-MFS-23816-1	c 26	N80-23419 *
NASA-CASE-MFS-20830	c 15	N71-30028 *	NASA-CASE-MFS-22409-2	c 74	N78-15880 *	NASA-CASE-MFS-23825-1	c 51	N81-32829 *
NASA-CASE-MFS-20831	c 28	N71-29153 *	NASA-CASE-MFS-22411-1	c 37	N74-21058 *	NASA-CASE-MFS-23828-1	c 33	N82-26569 *
NASA-CASE-MFS-20855-1	c 15	N77-10112 *	NASA-CASE-MFS-22458-1	c 44	N77-10635 *	NASA-CASE-MFS-23830-1	c 44	N82-24639 *
NASA-CASE-MFS-20855	c 15	N73-27405 *	NASA-CASE-MFS-22517-1	c 35	N76-18402 *	NASA-CASE-MFS-23845-1	c 33	N81-17348 *
NASA-CASE-MFS-20861-1	c 18	N73-32437 *	NASA-CASE-MFS-22537-1	c 35	N77-27328 *	NASA-CASE-MFS-23846-1	c 37	N82-32731 *
NASA-CASE-MFS-20863	c 31	N73-26876 *	NASA-CASE-MFS-22560-1	c 33	N77-14335 *	NASA-CASE-MFS-23862-1	c 48	N80-18667 *
NASA-CASE-MFS-20890	c 14	N72-22439 *	NASA-CASE-MFS-22562-1	c 44	N76-14595 *	NASA-CASE-MFS-23883-1	c 51	N80-16715 *
NASA-CASE-MFS-20916	c 14	N73-25460 *	NASA-CASE-MFS-22597	c 36	N78-17366 *	NASA-CASE-MFS-23923-1	c 35	N81-19426 *
NASA-CASE-MFS-20922-1	c 18	N74-22136 *	NASA-CASE-MFS-22631-1	c 66	N76-19888 *	NASA-CASE-MFS-23981-1	c 07	N83-20944 *
NASA-CASE-MFS-20922	c 31	N72-20840 *	NASA-CASE-MFS-22636-1	c 37	N76-22540 *	NASA-CASE-MFS-23988-1	c 33	N81-27395 *
NASA-CASE-MFS-20932-1	c 35	N75-19616 *	NASA-CASE-MFS-22649-1	c 37	N75-25186 *	NASA-CASE-MFS-23999-1	c 44	N81-24520 *
NASA-CASE-MFS-20935	c 09	N71-34212 *	NASA-CASE-MFS-22671-1	c 35	N75-21822 *	NASA-CASE-MFS-24368-3	c 33	N81-22280 *
NASA-CASE-MFS-20944	c 15	N73-13466 *	NASA-CASE-MFS-22671-2	c 35	N77-17426 *	NASA-CASE-MFS-25000-1	c 25	N81-19242 *
NASA-CASE-MFS-20979-2	c 06	N73-32030 *	NASA-CASE-MFS-22707-1	c 37	N76-15457 *	NASA-CASE-MFS-25050-1	c 71	N81-15767 *
NASA-CASE-MFS-20979	c 06	N72-25151 *	NASA-CASE-MFS-22729-1	c 32	N76-21366 *	NASA-CASE-MFS-25134-1	c 31	N83-31895 *
NASA-CASE-MFS-20994-1	c 35	N75-12271 *	NASA-CASE-MFS-22734-1	c 18	N75-19329 *	NASA-CASE-MFS-25139-1	c 34	N82-13376 *
NASA-CASE-MFS-21010-1	c 05	N73-30078 *	NASA-CASE-MFS-22743-1	c 44	N76-22657 *	NASA-CASE-MFS-25181-1	c 27	N82-24340 *
NASA-CASE-MFS-21040-1	c 06	N73-30098 *	NASA-CASE-MFS-22744-1	c 44	N76-24696 *	NASA-CASE-MFS-25208-1	c 33	N83-10345 *
NASA-CASE-MFS-21042	c 07	N72-25171 *	NASA-CASE-MFS-22749-1	c 44	N76-14601 *	NASA-CASE-MFS-25209-1	c 33	N83-35227 *
NASA-CASE-MFS-21045-1	c 35	N75-15932 *	NASA-CASE-MFS-22758-1	c 70	N75-26789 *	NASA-CASE-MFS-25211-2	c 33	N84-14423 *
NASA-CASE-MFS-21046-1	c 14	N73-27377 *	NASA-CASE-MFS-22787-1	c 15	N77-10113 *	NASA-CASE-MFS-25215-1	c 33	N83-31953 *
NASA-CASE-MFS-21049-1	c 52	N74-27864 *	NASA-CASE-MFS-22905-1	c 19	N76-22284 *	NASA-CASE-MFS-25242-1	c 35	N83-29650 *
NASA-CASE-MFS-21077-1	c 24	N75-28135 *	NASA-CASE-MFS-22906-1	c 75	N78-27913 *	NASA-CASE-MFS-25282-1	c 34	N83-19015 *
NASA-CASE-MFS-21087-1	c 35	N74-17153 *	NASA-CASE-MFS-22907-1	c 26	N76-18257 *	NASA-CASE-MFS-25287-1	c 44	N82-18686 *
NASA-CASE-MFS-21108-1	c 34	N74-27861 *	NASA-CASE-MFS-22926-1	c 24	N77-27187 *	NASA-CASE-MFS-25302-1	c 33	N83-28319 *
NASA-CASE-MFS-21109-1	c 05	N73-27941 *	NASA-CASE-MFS-22938-1	c 34	N76-18374 *	NASA-CASE-MFS-25302-2	c 33	N84-33660 *
NASA-CASE-MFS-21115-1	c 54	N74-12779 *	NASA-CASE-MFS-22991-1	c 34	N77-10463 *	NASA-CASE-MFS-25306-1	c 25	N83-13187 *
NASA-CASE-MFS-21136-1	c 35	N74-18323 *	NASA-CASE-MFS-23001-1	c 76	N77-32919 *	NASA-CASE-MFS-25312-1	c 74	N83-17305 *
NASA-CASE-MFS-21163-1	c 54	N74-17853 *	NASA-CASE-MFS-23008-1	c 35	N78-18390 *	NASA-CASE-MFS-25315-1	c 36	N83-29680 *
NASA-CASE-MFS-21214-1	c 09	N73-30181 *	NASA-CASE-MFS-23047-1	c 37	N76-18454 *	NASA-CASE-MFS-25319-1	c 60	N85-33701 *
NASA-CASE-MFS-21233-1	c 38	N74-15395 *	NASA-CASE-MFS-23051-1	c 37	N79-10422 *	NASA-CASE-MFS-25323-1	c 33	N84-22886 *
NASA-CASE-MFS-21244-1	c 36	N75-15028 *	NASA-CASE-MFS-23052-2	c 74	N79-13855 *	NASA-CASE-MFS-25363-1	c 37	N82-12441 *
NASA-CASE-MFS-21309-1	c 37	N74-18125 *	NASA-CASE-MFS-23059-1	c 44	N76-27664 *	NASA-CASE-MFS-25403-1	c 18	N83-29303 *
NASA-CASE-MFS-21311-1	c 20	N76-21275 *	NASA-CASE-MFS-23062-1	c 37	N77-12402 *	NASA-CASE-MFS-25405-1	c 35	N84-22929 *
NASA-CASE-MFS-21362	c 11	N73-20267 *	NASA-CASE-MFS-23074-1	c 54	N77-21844 *	NASA-CASE-MFS-25426-1	c 25	N83-10126 *
NASA-CASE-MFS-21364-1	c 37	N74-18126 *	NASA-CASE-MFS-23088-1	c 37	N77-23483 *	NASA-CASE-MFS-25429-1	c 18	N86-20469 *
NASA-CASE-MFS-21372-1	c 74	N74-27866 *	NASA-CASE-MFS-23099-1	c 09	N76-23273 *	NASA-CASE-MFS-25430-1	c 33	N84-16453 *
NASA-CASE-MFS-21374-1	c 33	N74-12951 *	NASA-CASE-MFS-23114-1	c 38	N78-32447 *	NASA-CASE-MFS-25436-1	c 27	N83-36220 *
NASA-CASE-MFS-21394-1	c 34	N74-27744 *	NASA-CASE-MFS-23118-1	c 35	N77-31465 *	NASA-CASE-MFS-25477-1	c 33	N84-14424 *
NASA-CASE-MFS-21395-1	c 25	N74-26948 *	NASA-CASE-MFS-23167-1	c 44	N76-31667 *	NASA-CASE-MFS-25509-1	c 35	N83-24828 *
NASA-CASE-MFS-21415-1	c 52	N74-20728 *	NASA-CASE-MFS-23175-1	c 35	N77-30436 *	NASA-CASE-MFS-25510-1	c 37	N84-16560 *
NASA-CASE-MFS-21424-1	c 34	N74-27730 *	NASA-CASE-MFS-23178-1	c 35	N77-10493 *	NASA-CASE-MFS-25535-1	c 33	N81-12330 *
NASA-CASE-MFS-21433	c 09	N73-20232 *	NASA-CASE-MFS-23181-1	c 33	N77-17351 *	NASA-CASE-MFS-25535-2	c 33	N84-22885 *
NASA-CASE-MFS-21441-1	c 14	N73-30392 *	NASA-CASE-MFS-23194-1	c 35	N78-17357 *	NASA-CASE-MFS-25586-1	c 33	N82-11360 *
NASA-CASE-MFS-21455-1	c 35	N74-15146 *	NASA-CASE-MFS-23225-1	c 52	N77-14735 *	NASA-CASE-MFS-25607-1	c 33	N83-34190 *
NASA-CASE-MFS-21462-1	c 33	N74-14935 *	NASA-CASE-MFS-23250-1	c 35	N82-11432 *	NASA-CASE-MFS-25616-1	c 33	N84-16455 *
NASA-CASE-MFS-21465-1	c 10	N73-32145 *	NASA-CASE-MFS-23267-1	c 35	N77-20401 *	NASA-CASE-MFS-25631-1	c 34	N84-12406 *
NASA-CASE-MFS-21470-1	c 44	N74-19870 *	NASA-CASE-MFS-23270-1	c 44	N78-25531 *	NASA-CASE-MFS-25637-1	c 44	N85-21769 *
NASA-CASE-MFS-21481-1	c 37	N74-18127 *	NASA-CASE-MFS-23274-1	c 33	N78-13320 *	NASA-CASE-MFS-25641-1	c 72	N84-28575 *
NASA-CASE-MFS-21485-1	c 37	N74-25968 *	NASA-CASE-MFS-23280-1	c 33	N78-10376 *	NASA-CASE-MFS-256704-1	c 33	N84-22884 *
NASA-CASE-MFS-21488-1	c 14	N75-24794 *	NASA-CASE-MFS-23281-1	c 35	N77-22450 *	NASA-CASE-MFS-25678-1	c 37	N84-11497 *
NASA-CASE-MFS-21540-1	c 32	N74-19790 *	NASA-CASE-MFS-23284-1	c 37	N80-14397 *	NASA-CASE-MFS-25687-1	c 35	N84-22928 *
NASA-CASE-MFS-21556-1	c 35	N74-26945 *	NASA-CASE-MFS-23299-1	c 39	N77-28511 *	NASA-CASE-MFS-25707-1	c 35	N82-26631 *
NASA-CASE-MFS-21577-1	c 19	N74-29410 *	NASA-CASE-MFS-23303-1	c 32	N77-18307 *	NASA-CASE-MFS-25717-1	c 35	N83-33768 *
NASA-CASE-MFS-21606-1	c 37	N75-19685 *	NASA-CASE-MFS-23311-1	c 54	N78-17676 *	NASA-CASE-MFS-25721-1	c 25	N85-21280 *
NASA-CASE-MFS-21611-1	c 54	N75-12616 *	NASA-CASE-MFS-23312-1	c 33	N78-27326 *	NASA-CASE-MFS-25740-1	c 52	N84-11744 *
NASA-CASE-MFS-21616-1	c 33	N75-30429 *	NASA-CASE-MFS-23315-1	c 76	N78-24950 *	NASA-CASE-MFS-25750-1	c 32	N86-20647 *
NASA-CASE-MFS-21628-1	c 44	N75-32581 *	NASA-CASE-MFS-23345-1	c 27	N77-30237 *	NASA-CASE-MFS-25752-1	c 74	N86-21348 *
NASA-CASE-MFS-21628-2	c 44	N76-23675 *	NASA-CASE-MFS-23349-1	c 44	N79-23481 *	NASA-CASE-MFS-25754-1	c 35	N84-28018 *
NASA-CASE-MFS-21629	c 14	N72-22442 *	NASA-CASE-MFS-23362-1	c 47	N77-10753 *	NASA-CASE-MFS-25786-2	c 76	N90-20896 *
NASA-CASE-MFS-21660-1	c 35	N74-21017 *	NASA-CASE-MFS-23363-1	c 35	N78-32396 *	NASA-CASE-MFS-25791-1	c 09	N84-27749 *
NASA-CASE-MFS-21671-1	c 33	N74-22885 *	NASA-CASE-MFS-23405-1	c 26	N77-29260 *	NASA-CASE-MFS-25807-2	c 37	N86-21850 *
NASA-CASE-MFS-21672-1	c 74	N76-19935 *	NASA-CASE-MFS-23447-1	c 37	N79-11404 *	NASA-CASE-MFS-25807	c 37	N83-20154 *
NASA-CASE-MFS-21675-1	c 25	N74-33378 *	NASA-CASE-MFS-23460-1	c 12	N79-26075 *	NASA-CASE-MFS-25825-1	c 31	N86-29055 *
NASA-CASE-MFS-21680-1	c 18	N74-27397 *	NASA-CASE-MFS-23461-1	c 35	N79-10389 *	NASA-CASE-MFS-25828-1	c 71	N84-28568 *
NASA-CASE-MFS-21681-1	c 18	N74-27397 *	NASA-CASE-MFS-23506-1	c 24	N78-24290 *	NASA-CASE-MFS-25833-1	c 35	N86-32698 *
NASA-CASE-MFS-21698-1	c 33	N74-26732 *	NASA-CASE-MFS-23513-1	c 74	N79-11865 *	NASA-CASE-MFS-25837-1	c 18	N85-29991 *
NASA-CASE-MFS-21704-1	c 35	N75-25124 *	NASA-CASE-MFS-23515-1	c 44	N80-21828 *	NASA-CASE-MFS-25842-2	c 37	N86-20788 *
NASA-CASE-MFS-21728-1	c 35	N74-27865 *	NASA-CASE-MFS-23518-1	c 44	N79-11469 *	NASA-CASE-MFS-25843-1	c 20	N83-17588 *
NASA-CASE-MFS-21761-1	c 35	N75-15931 *	NASA-CASE-MFS-23518-3	c 44	N80-16452 *	NASA-CASE-MFS-25852-1	c 33	N84-33661 *
NASA-CASE-MFS-21846-1	c 37	N74-26976 *	NASA-CASE-MFS-23540-1	c 44	N79-26475 *	NASA-CASE-MFS-25853-1	c 16	N84-27784 *
NASA-CASE-MFS-21919-1	c 10	N73-25243 *	NASA-CASE-MFS-23541-1	c 76	N79-14906 *	NASA-CASE-MFS-25854-1	c 33	N84-27975 *
NASA-CASE-MFS-21931-1	c 37	N75-26372 *	NASA-CASE-MFS-23551-1	c 04	N76-26175 *	NASA-CASE-MFS-25861-1	c 33	N85-22877 *
NASA-CASE-MFS-22002-1	c 44	N76-16612 *	NASA-CASE-MFS-23564-1	c 15	N78-25119 *	NASA-CASE-MFS-25862-1	c 27	N85-20126 *
NASA-CASE-MFS-22022-1	c 37	N76-15460 *	NASA-CASE-MFS-23579-1	c 18	N79-11108 *	NASA-CASE-MFS-25862-2	c 37	N84-33807 *
NASA-CASE-MFS-22039-1	c 09	N75-12968 *	NASA-CASE-MFS-23620-1	c 37	N79-10421 *	NASA-CASE-MFS-25868-1	c 33	N86-20670 *
NASA-CASE-MFS-22040-1	c 35	N74-26946 *	NASA-CASE-MFS-23626-1	c 24	N80-26388 *	NASA-CASE-MFS-25878-1	c 18	N84-27787 *
NASA-CASE-MFS-22060-1	c 35	N75-29380 *	NASA-CASE-MFS-23642-1	c 20	N80-10278 *	NASA-CASE-MFS-25905-2	c 31	N86-21718 *
NASA-CASE-MFS-22073-1	c 33	N75-13139 *	NASA-CASE-MFS-23642-2	c 20	N78-27176 *	NASA-CASE-MFS-25906-1	c 37	N86-20789 *
NASA-CASE-MFS-22088-1	c 33	N75-15874 *	NASA-CASE-MFS-23646-1	c 37	N79-22474 *	NASA-CASE-MFS-25907-1	c 37	N85-34401 *
NASA-CASE-MFS-22102-1	c 54	N74-20725 *	NASA-CASE-MFS-23659-1	c 33	N79-17133 *	NASA-CASE-MFS-25910-1	c 39	N86-20841 *
NASA-CASE-MFS-22129-1	c 33	N75-18477 *	NASA-CASE-MFS-23674-1	c 24	N81-29163 *	NASA-CASE-MFS-25942-1	c 74	N86-20124 *

NASA-CASE-MFS-25946-1	c 20	N86-26368 *	NASA-CASE-MFS-29134-1	c 74	N87-17493 *	NASA-CASE-MSC-12618-1	c 74	N78-17865 *
NASA-CASE-MFS-25949-1	c 37	N86-19603 *	NASA-CASE-MFS-29149-1	c 33	N90-19492 *	NASA-CASE-MSC-12619-2	c 27	N79-12221 *
NASA-CASE-MFS-25956-1	c 37	N87-21333 *	NASA-CASE-MFS-29177-1	c 37	N88-14362 *	NASA-CASE-MSC-12631-1	c 24	N77-28225 *
NASA-CASE-MFS-25962-1	c 09	N89-25242 *	NASA-CASE-MFS-29207-1	c 74	N87-25843 *	NASA-CASE-MSC-12631-3	c 27	N81-14077 *
NASA-CASE-MFS-25963-1	c 35	N86-20750 *	NASA-CASE-MFS-29241-1	c 24	N90-23480 *	NASA-CASE-MSC-12640-1	c 74	N76-31998 *
NASA-CASE-MFS-25964-2	c 37	N87-22977 *	NASA-CASE-MFS-29252-1	c 37	N88-23980 *	NASA-CASE-MSC-12662-1	c 33	N79-12331 *
NASA-CASE-MFS-25966-1	c 16	N86-26352 *	NASA-CASE-MFS-29260-1	c 37	N90-19602 *	NASA-CASE-MSC-12709-1	c 33	N77-24375 *
NASA-CASE-MFS-25978-1	c 44	N87-21410 *	NASA-CASE-MFS-29291-1	c 37	N89-12868 *	NASA-CASE-MSC-12731-1	c 37	N78-25426 *
NASA-CASE-MFS-25981-1	c 35	N87-14670 *	NASA-CASE-MFS-29348-1	c 74	N89-25689 *	NASA-CASE-MSC-12737-1	c 24	N79-25142 *
NASA-CASE-MFS-25989-1	c 20	N87-14420 *	NASA-CASE-MFS-29489-1	c 31	N90-23586 *	NASA-CASE-MSC-12743-1	c 32	N79-10263 *
NASA-CASE-MFS-26000-1	c 74	N87-14971 *	NASA-CASE-MFS-29491-1	c 31	N90-26168 *	NASA-CASE-MSC-12745-1	c 33	N81-27397 *
NASA-CASE-MFS-26002-1-CU	c 35	N86-26598 *	NASA-CASE-MFS-29576-1	c 25	N91-15368 *	NASA-CASE-MSC-13047-1	c 31	N71-25434 *
NASA-CASE-MFS-26008-1-CU	c 76	N88-14835 *	NASA-CASE-MFS-29766-1	c 33	N91-25335 *	NASA-CASE-MSC-13054	c 54	N78-17677 *
NASA-CASE-MFS-26009-1-SB	c 54	N88-24163 *				NASA-CASE-MSC-13110-1	c 08	N72-22163 *
NASA-CASE-MFS-26011-1-SB	c 52	N87-24874 *	NASA-CASE-MSC-10954-1	c 54	N78-18761 *	NASA-CASE-MSC-13112	c 03	N71-11057 *
NASA-CASE-MFS-26042-1-SB	c 37	N91-14613 *	NASA-CASE-MSC-10959	c 15	N71-26243 *	NASA-CASE-MSC-13140	c 05	N72-11085 *
NASA-CASE-MFS-26047-1	c 29	N90-21209 *	NASA-CASE-MSC-10960-1	c 03	N71-24718 *	NASA-CASE-MSC-13201-1	c 07	N71-28429 *
NASA-CASE-MFS-26049-1-NP	c 25	N89-28603 *	NASA-CASE-MSC-10966	c 14	N71-19568 *	NASA-CASE-MSC-13276-1	c 14	N71-27058 *
NASA-CASE-MFS-26061-1	c 76	N91-16815 *	NASA-CASE-MSC-11010	c 15	N71-19485 *	NASA-CASE-MSC-13281	c 31	N72-18859 *
NASA-CASE-MFS-26083-1-CU	c 26	N90-26940 *	NASA-CASE-MSC-11072	c 54	N74-32546 *	NASA-CASE-MSC-13282-1	c 05	N71-24729 *
NASA-CASE-MFS-26102-1-CU	c 47	N91-15661 *	NASA-CASE-MSC-11235	c 33	N78-17294 *	NASA-CASE-MSC-13332-1	c 14	N72-21408 *
NASA-CASE-MFS-28001-2	c 37	N88-14360 *	NASA-CASE-MSC-11242	c 35	N78-17358 *	NASA-CASE-MSC-13335-1	c 06	N72-31140 *
NASA-CASE-MFS-28008-1	c 35	N85-20300 *	NASA-CASE-MSC-11253	c 05	N71-12343 *	NASA-CASE-MSC-13397-1	c 21	N72-25595 *
NASA-CASE-MFS-28013-1	c 89	N86-22459 *	NASA-CASE-MSC-11277	c 09	N71-29008 *	NASA-CASE-MSC-13407-1	c 10	N72-20225 *
NASA-CASE-MFS-28013-2	c 89	N91-14096 *	NASA-CASE-MSC-11561-1	c 05	N73-32014 *	NASA-CASE-MSC-13436-1	c 05	N73-32015 *
NASA-CASE-MFS-28013-3	c 89	N90-27594 *	NASA-CASE-MSC-11817-1	c 15	N71-26611 *	NASA-CASE-MSC-13492-1	c 10	N71-28860 *
NASA-CASE-MFS-28013-4	c 89	N90-27595 *	NASA-CASE-MSC-11847-1	c 14	N72-11363 *	NASA-CASE-MSC-13512-1	c 15	N72-22485 *
NASA-CASE-MFS-28030-1	c 35	N86-25752 *	NASA-CASE-MSC-11849-1	c 15	N72-22488 *	NASA-CASE-MSC-13530-2	c 23	N75-14834 *
NASA-CASE-MFS-28044-1	c 31	N87-25491 *	NASA-CASE-MSC-12033-1	c 09	N71-13531 *	NASA-CASE-MSC-13540-1	c 05	N72-33096 *
NASA-CASE-MFS-28057-1	c 09	N87-14355 *	NASA-CASE-MSC-12049	c 31	N71-16080 *	NASA-CASE-MSC-13587-1	c 15	N73-30459 *
NASA-CASE-MFS-28058-1	c 37	N87-21332 *	NASA-CASE-MSC-12052-1	c 15	N71-24599 *	NASA-CASE-MSC-13601-2	c 54	N75-27759 *
NASA-CASE-MFS-28059-1	c 37	N86-32738 *	NASA-CASE-MSC-12084-1	c 12	N71-17569 *	NASA-CASE-MSC-13604-1	c 05	N73-13114 *
NASA-CASE-MFS-28060-1	c 76	N87-25862 *	NASA-CASE-MSC-12086-1	c 05	N71-12345 *	NASA-CASE-MSC-13609-1	c 05	N72-25122 *
NASA-CASE-MFS-28080-1	c 33	N87-21233 *	NASA-CASE-MSC-12101	c 09	N71-18720 *	NASA-CASE-MSC-13648	c 05	N72-27103 *
NASA-CASE-MFS-28087-1	c 35	N87-23944 *	NASA-CASE-MSC-12105-1	c 14	N72-21409 *	NASA-CASE-MSC-13746-1	c 10	N73-32143 *
NASA-CASE-MFS-28090-1	c 27	N87-21111 *	NASA-CASE-MSC-12109	c 18	N71-26285 *	NASA-CASE-MSC-13789-1	c 11	N73-32152 *
NASA-CASE-MFS-28110-1	c 37	N87-24689 *	NASA-CASE-MSC-12111-1	c 02	N71-11039 *	NASA-CASE-MSC-13802-2	c 35	N76-15431 *
NASA-CASE-MFS-28118-1	c 39	N87-25601 *	NASA-CASE-MSC-12116-1	c 15	N71-17648 *	NASA-CASE-MSC-13855-1	c 35	N74-17885 *
NASA-CASE-MFS-28122-1	c 72	N88-24253 *	NASA-CASE-MSC-12121-1	c 15	N71-27147 *	NASA-CASE-MSC-13907-1	c 10	N73-26230 *
NASA-CASE-MFS-28137-1	c 76	N88-24544 *	NASA-CASE-MSC-12135-1	c 09	N71-12526 *	NASA-CASE-MSC-13912-1	c 32	N74-30524 *
NASA-CASE-MFS-28139-1	c 29	N87-18679 *	NASA-CASE-MSC-12139-1	c 28	N71-14058 *	NASA-CASE-MSC-13917-1	c 05	N72-15098 *
NASA-CASE-MFS-28142-1	c 25	N88-23845 *	NASA-CASE-MSC-12143-1	c 33	N72-17947 *	NASA-CASE-MSC-13932-1	c 62	N74-14920 *
NASA-CASE-MFS-28144-1	c 76	N88-24545 *	NASA-CASE-MSC-12146-1	c 07	N72-17109 *	NASA-CASE-MSC-13972-1	c 52	N74-10975 *
NASA-CASE-MFS-28153-1	c 31	N86-32589 *	NASA-CASE-MSC-12165-1	c 07	N71-33696 *	NASA-CASE-MSC-13999-1	c 52	N74-26626 *
NASA-CASE-MFS-28161-1	c 37	N87-18817 *	NASA-CASE-MSC-12168-1	c 09	N71-18600 *	NASA-CASE-MSC-14053-1	c 60	N74-12888 *
NASA-CASE-MFS-28177-1	c 35	N91-21496 *	NASA-CASE-MSC-12178-1	c 09	N71-13518 *	NASA-CASE-MSC-14065-1	c 32	N74-26654 *
NASA-CASE-MFS-28182-1	c 76	N90-24169 *	NASA-CASE-MSC-12205-1	c 07	N71-27056 *	NASA-CASE-MSC-14066-1	c 33	N74-27705 *
NASA-CASE-MFS-28183-1	c 74	N89-13253 *	NASA-CASE-MSC-12206-1	c 05	N71-17599 *	NASA-CASE-MSC-14070-1	c 32	N74-32598 *
NASA-CASE-MFS-28185-1	c 37	N88-23979 *	NASA-CASE-MSC-12209	c 09	N71-24842 *	NASA-CASE-MSC-14081-1	c 35	N74-27860 *
NASA-CASE-MFS-28192-1	c 37	N90-17154 *	NASA-CASE-MSC-12223-1	c 07	N71-26181 *	NASA-CASE-MSC-14082-1	c 60	N76-23850 *
NASA-CASE-MFS-28206-1-SB	c 76	N90-23242 *	NASA-CASE-MSC-12233-1	c 15	N72-25454 *	NASA-CASE-MSC-14096-1	c 74	N74-15095 *
NASA-CASE-MFS-28217-1	c 34	N89-14392 *	NASA-CASE-MSC-12233-2	c 32	N73-13921 *	NASA-CASE-MSC-14129-1	c 33	N75-18479 *
NASA-CASE-MFS-28232-1	c 74	N91-14835 *	NASA-CASE-MSC-12239-1	c 52	N79-21750 *	NASA-CASE-MSC-14130-1	c 33	N74-32711 *
NASA-CASE-MFS-28234-1	c 52	N90-20616 *	NASA-CASE-MSC-12243-1	c 05	N71-24728 *	NASA-CASE-MSC-14131-1	c 33	N75-19515 *
NASA-CASE-MFS-28242-1	c 35	N89-26202 *	NASA-CASE-MSC-12259-1	c 07	N70-12616 *	NASA-CASE-MSC-14143-1	c 77	N75-20139 *
NASA-CASE-MFS-28248-1	c 31	N88-24817 *	NASA-CASE-MSC-12259-2	c 07	N72-33146 *	NASA-CASE-MSC-14180-1	c 52	N76-14757 *
NASA-CASE-MFS-28253-1	c 37	N89-28831 *	NASA-CASE-MSC-12279-1	c 15	N70-35679 *	NASA-CASE-MSC-14182-1	c 27	N76-14264 *
NASA-CASE-MFS-28273-1	c 37	N88-23974 *	NASA-CASE-MSC-12279	c 15	N72-17450 *	NASA-CASE-MSC-14187-1	c 35	N74-32879 *
NASA-CASE-MFS-28281-1	c 09	N90-23415 *	NASA-CASE-MSC-12280	c 27	N71-16348 *	NASA-CASE-MSC-14219-1	c 32	N74-27612 *
NASA-CASE-MFS-28282-1	c 76	N88-29602 *	NASA-CASE-MSC-12293-1	c 14	N72-27411 *	NASA-CASE-MSC-14240-1	c 33	N75-14957 *
NASA-CASE-MFS-28287-1	c 35	N88-23959 *	NASA-CASE-MSC-12297	c 14	N72-23457 *	NASA-CASE-MSC-14245-1	c 18	N75-27041 *
NASA-CASE-MFS-28294-1	c 31	N91-14508 *	NASA-CASE-MSC-12324-1	c 05	N72-22093 *	NASA-CASE-MSC-14270-1	c 27	N76-22377 *
NASA-CASE-MFS-28295-1	c 74	N91-13999 *	NASA-CASE-MSC-12327-1	c 35	N77-27368 *	NASA-CASE-MSC-14270-2	c 27	N76-23426 *
NASA-CASE-MFS-28298-1	c 76	N91-14872 *	NASA-CASE-MSC-12357	c 15	N73-12489 *	NASA-CASE-MSC-14273-1	c 34	N75-33342 *
NASA-CASE-MFS-28314-1	c 26	N91-14462 *	NASA-CASE-MSC-12363-1	c 14	N73-26431 *	NASA-CASE-MSC-14276-1	c 52	N77-14737 *
NASA-CASE-MFS-28323-1	c 14	N92-15081 *	NASA-CASE-MSC-12372-1	c 31	N72-25842 *	NASA-CASE-MSC-14331-1	c 27	N76-24405 *
NASA-CASE-MFS-28327-1	c 18	N89-28556 *	NASA-CASE-MSC-12389	c 33	N71-29052 *	NASA-CASE-MSC-14331-2	c 27	N78-17213 *
NASA-CASE-MFS-28328-1	c 37	N91-13731 *	NASA-CASE-MSC-12390	c 27	N71-29155 *	NASA-CASE-MSC-14331-3	c 27	N78-32262 *
NASA-CASE-MFS-28345-1	c 37	N91-14608 *	NASA-CASE-MSC-12391	c 30	N73-12884 *	NASA-CASE-MSC-14339-1	c 05	N75-24716 *
NASA-CASE-MFS-28345-2	c 37	N89-28842 *	NASA-CASE-MSC-12393-1	c 02	N73-26006 *	NASA-CASE-MSC-14428-1	c 23	N77-17161 *
NASA-CASE-MFS-28368-1	c 75	N90-10717 *	NASA-CASE-MSC-12394-1	c 08	N74-10942 *	NASA-CASE-MSC-14435-1	c 37	N76-18455 *
NASA-CASE-MFS-28370-1	c 35	N89-28793 *	NASA-CASE-MSC-12395	c 09	N72-25257 *	NASA-CASE-MSC-14472-1	c 43	N77-10584 *
NASA-CASE-MFS-28372-1	c 27	N92-16123 *	NASA-CASE-MSC-12396-1	c 03	N73-31988 *	NASA-CASE-MSC-14557-1	c 32	N76-16249 *
NASA-CASE-MFS-28376-1	c 14	N91-21175 *	NASA-CASE-MSC-12397-1	c 05	N72-25119 *	NASA-CASE-MSC-14558-1	c 32	N75-21486 *
NASA-CASE-MFS-28383-1	c 34	N91-14563 *	NASA-CASE-MSC-12398	c 05	N72-20098 *	NASA-CASE-MSC-14623-1	c 52	N77-28717 *
NASA-CASE-MFS-28384-1	c 37	N90-27112 *	NASA-CASE-MSC-12404-1	c 23	N73-13661 *	NASA-CASE-MSC-14632-1	c 54	N78-14784 *
NASA-CASE-MFS-28390-1	c 24	N91-15333 *	NASA-CASE-MSC-12408-1	c 46	N74-13011 *	NASA-CASE-MSC-14640-1	c 54	N76-14804 *
NASA-CASE-MFS-28406-1	c 37	N91-13729 *	NASA-CASE-MSC-12411-1	c 05	N72-20096 *	NASA-CASE-MSC-14649-1	c 33	N76-16331 *
NASA-CASE-MFS-28419-1	c 18	N91-27200 *	NASA-CASE-MSC-12423-1	c 91	N76-30131 *	NASA-CASE-MSC-14653-1	c 35	N77-19385 *
NASA-CASE-MFS-28420-1	c 37	N91-21545 *	NASA-CASE-MSC-12428-1	c 10	N73-25240 *	NASA-CASE-MSC-14683-1	c 74	N77-18893 *
NASA-CASE-MFS-28421-1	c 18	N90-26861 *	NASA-CASE-MSC-12433	c 31	N73-14854 *	NASA-CASE-MSC-14733-1	c 54	N76-24900 *
NASA-CASE-MFS-28422-1	c 29	N91-17250 *	NASA-CASE-MSC-12458-1	c 08	N73-32081 *	NASA-CASE-MSC-14735-1	c 54	N76-24900 *
NASA-CASE-MFS-28425-1	c 35	N90-26304 *	NASA-CASE-MSC-12462-1	c 32	N74-20809 *	NASA-CASE-MSC-14757-1	c 35	N78-10428 *
NASA-CASE-MFS-28426-1	c 54	N91-32795 *	NASA-CASE-MSC-12494-1	c 32	N74-20810 *	NASA-CASE-MSC-14771-1	c 54	N77-32722 *
NASA-CASE-MFS-28431-1	c 24	N92-17870 *	NASA-CASE-MSC-12506-1	c 32	N77-12239 *	NASA-CASE-MSC-14773-1	c 35	N78-12390 *
NASA-CASE-MFS-28458-1	c 33	N91-26459 *	NASA-CASE-MSC-12531-1	c 35	N75-30504 *	NASA-CASE-MSC-14805-1	c 54	N78-32720 *
NASA-CASE-MFS-28473-1	c 76	N91-26968 *	NASA-CASE-MSC-12549-1	c 37	N74-27903 *	NASA-CASE-MSC-14831-1	c 25	N78-10225 *
NASA-CASE-MFS-28485-1	c 35	N91-15519 *	NASA-CASE-MSC-12559-1	c 18	N76-14186 *	NASA-CASE-MSC-14836-1	c 52	N82-11770 *
NASA-CASE-MFS-28493-1	c 09	N91-25155 *	NASA-CASE-MSC-12561-1	c 18	N76-17185 *	NASA-CASE-MSC-14840-1	c 32	N77-24331 *
NASA-CASE-MFS-28507-1	c 76	N91-23933 *	NASA-CASE-MSC-12568-1	c 24	N76-14204 *	NASA-CASE-MSC-14903-1	c 27	N78-32256 *
NASA-CASE-MFS-28521-1	c 37	N91-26542 *	NASA-CASE-MSC-12593-1	c 17	N76-21250 *	NASA-CASE-MSC-14903-2	c 27	N80-10358 *
NASA-CASE-MFS-28524-1	c 18	N91-25167 *	NASA-CASE-MSC-12607-1	c 32	N75-21485 *	NASA-CASE-MSC-14903-3	c 27	N80-24438 *
NASA-CASE-MFS-28545-1	c 31	N91-25306 *	NASA-CASE-MSC-12609-1	c 05	N73-32012 *	NASA-CASE-MSC-14905-1	c 37	N77-28487 *
NASA-CASE-MFS-28563-1	c 35	N91-25388 *	NASA-CASE-MSC-12611-1	c 12	N76-15189 *	NASA-CASE-MSC-14916-1	c 33	N78-10375 *
NASA-CASE-MFS-28589-1	c 37	N92-17584 *	NASA-CASE-MSC-12615-1	c 37	N76-19437 *	NASA-CASE-MSC-14939-1	c 32	N79-11264 *
NASA-CASE-MFS-28633-1	c 54	N92-17866 *	NASA-CASE-MSC-12617-1	c 35	N76-29552 *	NASA-CASE-MSC-15158-1	c 14	N72-17325 *

REPORT NUMBER INDEX

NASA-CASE-NPO-10189-1

NASA-CASE-MSC-15474-1	c 15	N71-26162 *	NASA-CASE-MSC-20254-1	c 16	N84-22601 *	NASA-CASE-MSC-21465-1	c 61	N91-14741 *
NASA-CASE-MSC-15567-1	c 33	N73-16918 *	NASA-CASE-MSC-20258-1	c 60	N84-28492 *	NASA-CASE-MSC-21469-1	c 37	N91-31655 *
NASA-CASE-MSC-15626-1	c 14	N72-25411 *	NASA-CASE-MSC-20261-1	c 54	N84-28484 *	NASA-CASE-MSC-21470-1	c 09	N91-21157 *
NASA-CASE-MSC-16000-1	c 37	N78-24544 *	NASA-CASE-MSC-20261-2	c 54	N84-23113 *	NASA-CASE-MSC-21476-1	c 37	N91-21542 *
NASA-CASE-MSC-16043-1	c 37	N79-11402 *	NASA-CASE-MSC-20275-1	c 35	N85-21595 *	NASA-CASE-MSC-21481-1	c 60	N91-13890 *
NASA-CASE-MSC-16074-1	c 27	N80-26446 *	NASA-CASE-MSC-20304-1	c 37	N82-31690 *	NASA-CASE-MSC-21487-1	c 25	N90-16887 *
NASA-CASE-MSC-16098-1	c 51	N79-10693 *	NASA-CASE-MSC-20319-1	c 37	N85-21649 *	NASA-CASE-MSC-21500-1	c 35	N91-21493 *
NASA-CASE-MSC-16170-2	c 32	N84-27952 *	NASA-CASE-MSC-20418-1	c 74	N86-20126 *	NASA-CASE-MSC-21502-1	c 37	N91-21543 *
NASA-CASE-MSC-16182-1	c 54	N80-10799 *	NASA-CASE-MSC-20467-1	c 35	N88-23966 *	NASA-CASE-MSC-21503-1	c 27	N92-10091 *
NASA-CASE-MSC-16217-1	c 31	N81-27323 *	NASA-CASE-MSC-20475-1	c 37	N87-17037 *	NASA-CASE-MSC-21504-1	c 18	N91-21221 *
NASA-CASE-MSC-16239-1	c 37	N81-32510 *	NASA-CASE-MSC-20476-2	c 20	N89-25279 *	NASA-CASE-MSC-21509-1	c 74	N91-25840 *
NASA-CASE-MSC-16253-1	c 32	N79-20297 *	NASA-CASE-MSC-20497-1	c 34	N85-29180 *	NASA-CASE-MSC-21517-1	c 37	N91-24577 *
NASA-CASE-MSC-16258-1	c 45	N79-12584 *	NASA-CASE-MSC-20543-1	c 18	N84-22610 *	NASA-CASE-MSC-21517-1	c 31	N92-16161 *
NASA-CASE-MSC-16260-1	c 51	N80-16714 *	NASA-CASE-MSC-20549-2	c 35	N88-24927 *	NASA-CASE-MSC-21534-1	c 18	N91-21222 *
NASA-CASE-MSC-16270-1	c 37	N78-27423 *	NASA-CASE-MSC-20622-1	c 25	N86-19413 *	NASA-CASE-MSC-21536-1	c 18	N91-13483 *
NASA-CASE-MSC-16370-1	c 35	N81-19427 *	NASA-CASE-MSC-20635-1	c 18	N87-14373 *	NASA-CASE-MSC-21536-1	c 18	N92-21999 *
NASA-CASE-MSC-16394-1	c 28	N81-24280 *	NASA-CASE-MSC-20653-1	c 35	N86-26595 *	NASA-CASE-MSC-21539-1	c 37	N91-14610 *
NASA-CASE-MSC-16433-1	c 52	N81-24711 *	NASA-CASE-MSC-20676-1	c 18	N86-24729 *	NASA-CASE-MSC-21540-1	c 37	N91-32514 *
NASA-CASE-MSC-16461-1	c 33	N79-11313 *	NASA-CASE-MSC-20761-1	c 37	N87-15465 *	NASA-CASE-MSC-21542-1	c 20	N92-15122 *
NASA-CASE-MSC-16462-1	c 32	N82-31583 *	NASA-CASE-MSC-20782-1	c 27	N90-23566 *	NASA-CASE-MSC-21549-1	c 34	N91-27504 *
NASA-CASE-MSC-16497-1	c 25	N82-12166 *	NASA-CASE-MSC-20783-1	c 35	N86-20756 *	NASA-CASE-MSC-21555-1	c 37	N91-23492 *
NASA-CASE-MSC-16697-1	c 33	N79-28415 *	NASA-CASE-MSC-20797-1	c 37	N87-23867 *	NASA-CASE-MSC-21559-1	c 51	N91-13860 *
NASA-CASE-MSC-16747-1	c 33	N81-17349 *	NASA-CASE-MSC-20797-2	c 35	N91-21494 *	NASA-CASE-MSC-21560-1	c 51	N90-18852 *
NASA-CASE-MSC-16777-1	c 51	N80-27067 *	NASA-CASE-MSC-20812-1	c 34	N86-27593 *	NASA-CASE-MSC-21562-1	c 16	N92-16007 *
NASA-CASE-MSC-16800-1	c 32	N81-14187 *	NASA-CASE-MSC-20821-1	c 17	N87-25348 *	NASA-CASE-MSC-21577-1	c 25	N91-23271 *
NASA-CASE-MSC-16841-1	c 34	N79-24285 *	NASA-CASE-MSC-20840-1	c 34	N88-29132 *	NASA-CASE-MSC-21580-1	c 37	N91-23491 *
NASA-CASE-MSC-16934-3	c 24	N84-16262 *	NASA-CASE-MSC-20841-1	c 34	N87-22950 *	NASA-CASE-MSC-21580-1	c 37	N92-21726 *
NASA-CASE-MSC-16938-1	c 37	N80-23653 *	NASA-CASE-MSC-20841-2	c 34	N88-23958 *	NASA-CASE-MSC-21584-1	c 25	N91-24362 *
NASA-CASE-MSC-16973-1	c 37	N81-14317 *	NASA-CASE-MSC-20857-1	c 37	N87-17035 *	NASA-CASE-MSC-21585-1	c 51	N91-31755 *
NASA-CASE-MSC-17832-1	c 33	N74-14956 *	NASA-CASE-MSC-20865-1	c 32	N87-18692 *	NASA-CASE-MSC-21589-1	c 54	N91-16566 *
NASA-CASE-MSC-18035-1	c 32	N81-15179 *	NASA-CASE-MSC-20867-1	c 36	N88-24958 *	NASA-CASE-MSC-21613-1	c 61	N92-10331 *
NASA-CASE-MSC-18106-1	c 33	N82-11357 *	NASA-CASE-MSC-20873-1	c 32	N89-11961 *	NASA-CASE-MSC-21625-1	c 53	N91-28730 *
NASA-CASE-MSC-18107-1	c 27	N81-25209 *	NASA-CASE-MSC-20900-1	c 37	N88-30131 *	NASA-CASE-MSC-21629-1	c 54	N91-31803 *
NASA-CASE-MSC-18134-1	c 37	N81-15363 *	NASA-CASE-MSC-20906-2	c 35	N89-15379 *	NASA-CASE-MSC-21631-1	c 75	N91-32947 *
NASA-CASE-MSC-18172-3	c 31	N88-29052 *	NASA-CASE-MSC-20907-1	c 37	N87-18818 *	NASA-CASE-MSC-21662-1	c 51	N91-17531 *
NASA-CASE-MSC-18179-1	c 20	N80-18097 *	NASA-CASE-MSC-20910-1	c 37	N87-25582 *	NASA-CASE-MSC-21671-1	c 37	N91-32498 *
NASA-CASE-MSC-18223-1	c 24	N82-29362 *	NASA-CASE-MSC-20912-1	c 32	N88-26568 *	NASA-CASE-MSC-21675-1	c 52	N91-13865 *
NASA-CASE-MSC-18223-2	c 54	N84-11758 *	NASA-CASE-MSC-20929-1	c 51	N91-14703 *	NASA-CASE-MSC-21700-1	c 35	N91-23462 *
NASA-CASE-MSC-18255-1	c 74	N80-33210 *	NASA-CASE-MSC-20946-1	c 34	N87-28867 *	NASA-CASE-MSC-21700-1	c 35	N92-22039 *
NASA-CASE-MSC-18334-1	c 32	N80-32604 *	NASA-CASE-MSC-20964-1	c 60	N87-14863 *	NASA-CASE-MSC-21703-1	c 31	N91-25305 *
NASA-CASE-MSC-18381-1	c 52	N81-28740 *	NASA-CASE-MSC-20979-1	c 37	N87-22985 *	NASA-CASE-MSC-21721-1	c 54	N92-16559 *
NASA-CASE-MSC-18382-1	c 27	N82-16238 *	NASA-CASE-MSC-20985-1	c 18	N88-26398 *	NASA-CASE-MSC-21729-1	c 34	N92-16241 *
NASA-CASE-MSC-18382-2	c 27	N84-14324 *	NASA-CASE-MSC-21025-1	c 31	N87-25495 *	NASA-CASE-MSC-21730-1	c 37	N91-23493 *
NASA-CASE-MSC-18407-1	c 33	N82-24427 *	NASA-CASE-MSC-21025-2	c 54	N91-14724 *	NASA-CASE-MSC-21737-1	c 61	N91-13911 *
NASA-CASE-MSC-18417-1	c 74	N85-29750 *	NASA-CASE-MSC-21025-3	c 54	N91-26747 *	NASA-CASE-MSC-21748-1	c 37	N91-25415 *
NASA-CASE-MSC-18422-1	c 37	N82-16408 *	NASA-CASE-MSC-21025-4	c 54	N91-14723 *	NASA-CASE-MSC-21748-1	c 37	N92-21727 *
NASA-CASE-MSC-18430-1	c 37	N82-24491 *	NASA-CASE-MSC-21056-1	c 18	N88-23827 *	NASA-CASE-MSC-21752-1	c 54	N92-17910 *
NASA-CASE-MSC-18498-1	c 60	N82-29013 *	NASA-CASE-MSC-21059-2	c 35	N91-15511 *	NASA-CASE-MSC-21759-1	c 25	N92-12079 *
NASA-CASE-MSC-18526-1	c 37	N82-24494 *	NASA-CASE-MSC-21059-3	c 35	N91-21495 *	NASA-CASE-MSC-21763-1	c 51	N91-25570 *
NASA-CASE-MSC-18532-1	c 32	N82-27558 *	NASA-CASE-MSC-21082-1	c 27	N87-29672 *	NASA-CASE-MSC-21775-1	c 52	N92-11627 *
NASA-CASE-MSC-18538-1	c 37	N82-26672 *	NASA-CASE-MSC-21094-1	c 35	N88-24941 *	NASA-CASE-MSC-21776-1	c 31	N92-17913 *
NASA-CASE-MSC-18578-1	c 32	N85-21427 *	NASA-CASE-MSC-21095-1	c 37	N89-12866 *	NASA-CASE-MSC-21793-1	c 16	N91-28186 *
NASA-CASE-MSC-18606-1	c 32	N82-11336 *	NASA-CASE-MSC-21096-1	c 18	N89-12621 *	NASA-CASE-MSC-21799-1	c 37	N92-11359 *
NASA-CASE-MSC-18627-1	c 74	N82-30071 *	NASA-CASE-MSC-21117-1	c 18	N88-28958 *	NASA-CASE-MSC-21806-1	c 74	N92-17863 *
NASA-CASE-MSC-18675-1	c 32	N84-22820 *	NASA-CASE-MSC-21117-2	c 18	N89-28554 *	NASA-CASE-MSC-21858-1	c 52	N92-11628 *
NASA-CASE-MSC-18723-1	c 35	N83-21312 *	NASA-CASE-MSC-21132-1	c 37	N88-29181 *	NASA-CASE-MSC-21868-1	c 54	N92-11639 *
NASA-CASE-MSC-18736-1	c 24	N83-13172 *	NASA-CASE-MSC-21166-1	c 35	N87-25555 *	NASA-CASE-MSC-21868-1	c 54	N92-21589 *
NASA-CASE-MSC-18737-1	c 24	N83-13171 *	NASA-CASE-MSC-21169-1	c 27	N89-29539 *	NASA-CASE-MSC-21898-1	c 37	N92-17872 *
NASA-CASE-MSC-18741-1	c 27	N82-29456 *	NASA-CASE-MSC-21170-1	c 17	N91-14371 *	NASA-CASE-MSC-21936-1	c 25	N92-19486 *
NASA-CASE-MSC-18742-1	c 37	N82-26673 *	NASA-CASE-MSC-21171-1	c 37	N88-23973 *	NASA-CASE-MSC-25707-1	c 35	N85-29214 *
NASA-CASE-MSC-18759-1	c 52	N83-27578 *	NASA-CASE-MSC-21207-1	c 37	N88-29180 *	NASA-CASE-MSC-90153-2	c 05	N72-25120 *
NASA-CASE-MSC-18761-1	c 52	N83-27577 *	NASA-CASE-MSC-21211-1	c 18	N89-28553 *			
NASA-CASE-MSC-18791-1	c 37	N83-36482 *	NASA-CASE-MSC-21253-1	c 31	N90-20254 *	NASA-CASE-NPO-08835-1	c 27	N78-33228 *
NASA-CASE-MSC-18794-1	c 44	N83-14693 *	NASA-CASE-MSC-21271-1	c 34	N90-21999 *	NASA-CASE-NPO-10003	c 10	N71-26415 *
NASA-CASE-MSC-18807-1	c 37	N83-36483 *	NASA-CASE-MSC-21293-1	c 51	N91-21700 *	NASA-CASE-NPO-10034	c 15	N71-17685 *
NASA-CASE-MSC-18808-1	c 32	N90-20280 *	NASA-CASE-MSC-21294-1	c 51	N91-30667 *	NASA-CASE-NPO-10037	c 09	N71-19610 *
NASA-CASE-MSC-18832-1	c 27	N83-18908 *	NASA-CASE-MSC-21299-1	c 20	N88-24684 *	NASA-CASE-NPO-10046	c 28	N72-17843 *
NASA-CASE-MSC-18852-1	c 37	N85-29283 *	NASA-CASE-MSC-21299-2	c 37	N91-32508 *	NASA-CASE-NPO-10051	c 18	N71-24934 *
NASA-CASE-MSC-18866-1	c 35	N85-29213 *	NASA-CASE-MSC-21327-1	c 18	N90-11798 *	NASA-CASE-NPO-10064	c 15	N71-17693 *
NASA-CASE-MSC-18929-1	c 39	N83-20280 *	NASA-CASE-MSC-21330-1	c 16	N88-24660 *	NASA-CASE-NPO-10066	c 09	N71-18598 *
NASA-CASE-MSC-18934-3	c 24	N82-26387 *	NASA-CASE-MSC-21332-1	c 03	N91-15142 *	NASA-CASE-NPO-10068	c 08	N71-19288 *
NASA-CASE-MSC-18936-1	c 35	N83-29652 *	NASA-CASE-MSC-21334-1	c 32	N91-25317 *	NASA-CASE-NPO-10070	c 15	N71-27372 *
NASA-CASE-MSC-18969-1	c 18	N84-22605 *	NASA-CASE-MSC-21348-1	c 62	N91-14769 *	NASA-CASE-NPO-10096	c 07	N71-24583 *
NASA-CASE-MSC-19095-1	c 37	N75-19683 *	NASA-CASE-MSC-21350-1	c 60	N92-16563 *	NASA-CASE-NPO-10109	c 03	N71-11049 *
NASA-CASE-MSC-19372-1	c 39	N76-31562 *	NASA-CASE-MSC-21354-1	c 37	N88-24969 *	NASA-CASE-NPO-10112	c 08	N71-12502 *
NASA-CASE-MSC-19442-1	c 74	N77-10899 *	NASA-CASE-MSC-21356-1	c 18	N90-19278 *	NASA-CASE-NPO-10117	c 15	N71-15608 *
NASA-CASE-MSC-19514-1	c 37	N79-20377 *	NASA-CASE-MSC-21360-1	c 18	N91-14374 *	NASA-CASE-NPO-10118	c 07	N71-24741 *
NASA-CASE-MSC-19535-1	c 37	N77-32499 *	NASA-CASE-MSC-21361-1	c 51	N91-21701 *	NASA-CASE-NPO-10122	c 12	N71-17631 *
NASA-CASE-MSC-19536-1	c 37	N77-22482 *	NASA-CASE-MSC-21364-1	c 54	N89-13889 *	NASA-CASE-NPO-10123	c 15	N71-24835 *
NASA-CASE-MSC-19568-1	c 34	N78-25350 *	NASA-CASE-MSC-21365-1	c 37	N90-20408 *	NASA-CASE-NPO-10138	c 33	N71-16357 *
NASA-CASE-MSC-19666-1	c 37	N78-17383 *	NASA-CASE-MSC-21366-1	c 54	N90-25498 *	NASA-CASE-NPO-10140	c 07	N71-24742 *
NASA-CASE-MSC-19672-1	c 38	N79-14398 *	NASA-CASE-MSC-21372-1	c 35	N89-12842 *	NASA-CASE-NPO-10141	c 11	N71-24964 *
NASA-CASE-MSC-19693-1	c 26	N78-24333 *	NASA-CASE-MSC-21379-1	c 61	N90-27340 *	NASA-CASE-NPO-10143	c 10	N71-26326 *
NASA-CASE-MSC-19706-1	c 09	N78-31129 *	NASA-CASE-MSC-21381-1	c 63	N91-13944 *	NASA-CASE-NPO-10144	c 14	N71-17701 *
NASA-CASE-MSC-20036-1	c 76	N85-33826 *	NASA-CASE-MSC-21384-1	c 34	N92-16243 *	NASA-CASE-NPO-10150	c 08	N71-24650 *
NASA-CASE-MSC-20078-3	c 52	N91-14709 *	NASA-CASE-MSC-21386-1	c 18	N90-20126 *	NASA-CASE-NPO-10151	c 37	N78-17386 *
NASA-CASE-MSC-20080-1	c 37	N85-30034 *	NASA-CASE-MSC-21387-1	c 61	N90-16411 *	NASA-CASE-NPO-10158	c 33	N71-16356 *
NASA-CASE-MSC-20112-1	c 37	N85-20338 *	NASA-CASE-MSC-21408-1	c 37	N91-14607 *	NASA-CASE-NPO-10166-1	c 07	N73-22076 *
NASA-CASE-MSC-20127-2	c 37	N85-34403 *	NASA-CASE-MSC-21415-1	c 61	N92-17860 *	NASA-CASE-NPO-10166-2	c 35	N76-16391 *
NASA-CASE-MSC-20148-1	c 37	N85-29284 *	NASA-CASE-MSC-21416-1	c 74	N91-32922 *	NASA-CASE-NPO-10169	c 10	N71-24844 *
NASA-CASE-MSC-20162-1	c 37	N87-17036 *	NASA-CASE-MSC-21420-1	c 18	N92-15114 *	NASA-CASE-NPO-10173	c 15	N71-24696 *
NASA-CASE-MSC-20181-1	c 33	N88-23941 *	NASA-CASE-MSC-21428-1	c 33	N91-14537 *	NASA-CASE-NPO-10174	c 14	N71-18465 *
NASA-CASE-MSC-20187-1	c 33	N87-25531 *	NASA-CASE-MSC-21434-1	c 37	N92-10197 *	NASA-CASE-NPO-10175	c 14	N71-18625 *
NASA-CASE-MSC-20202-1	c 54	N84-16803 *	NASA-CASE-MSC-21436-1	c 37	N90-21390 *	NASA-CASE-NPO-10185	c 10	N71-26339 *
NASA-CASE-MSC-20206-1	c 25	N86-27431 *	NASA-CASE-MSC-21460-1	c 54	N91-13879 *	NASA-CASE-NPO-10188	c 03	N71-20273 *
NASA-CASE-MSC-20250-1	c 35	N86-19581 *	NASA-CASE-MSC-21463-1	c 37	N91-23490 *	NASA-CASE-NPO-10189-1	c 33	N77-21314 *

NASA-CASE-NPO-10194	c 03	N71-20407 *	NASA-CASE-NPO-10768	c 06	N71-27254 *	NASA-CASE-NPO-11361	c 07	N72-32169 *
NASA-CASE-NPO-10198	c 09	N71-24806 *	NASA-CASE-NPO-10769	c 08	N72-11171 *	NASA-CASE-NPO-11366	c 11	N73-26238 *
NASA-CASE-NPO-10199	c 09	N72-17156 *	NASA-CASE-NPO-10774	c 06	N72-17095 *	NASA-CASE-NPO-11369	c 15	N73-13467 *
NASA-CASE-NPO-10201	c 08	N71-18694 *	NASA-CASE-NPO-10778	c 14	N72-11364 *	NASA-CASE-NPO-11371	c 08	N73-12177 *
NASA-CASE-NPO-10214	c 10	N71-26577 *	NASA-CASE-NPO-10781-1	c 33	N77-21314 *	NASA-CASE-NPO-11373	c 13	N72-25323 *
NASA-CASE-NPO-10230	c 09	N71-12520 *	NASA-CASE-NPO-10790-1	c 33	N77-21316 *	NASA-CASE-NPO-11377	c 15	N73-27406 *
NASA-CASE-NPO-10231	c 07	N71-26101 *	NASA-CASE-NPO-10796	c 15	N71-27068 *	NASA-CASE-NPO-11387	c 14	N73-14429 *
NASA-CASE-NPO-10233-1	c 74	N78-33913 *	NASA-CASE-NPO-10808	c 15	N71-27432 *	NASA-CASE-NPO-11388	c 03	N72-23048 *
NASA-CASE-NPO-10234	c 06	N72-17094 *	NASA-CASE-NPO-10810	c 14	N71-27323 *	NASA-CASE-NPO-11403-1	c 33	N77-22386 *
NASA-CASE-NPO-10242	c 09	N71-24803 *	NASA-CASE-NPO-10812	c 15	N73-13464 *	NASA-CASE-NPO-11406	c 08	N73-12175 *
NASA-CASE-NPO-10244	c 15	N72-26371 *	NASA-CASE-NPO-10817-1	c 08	N73-30135 *	NASA-CASE-NPO-11417	c 15	N73-24513 *
NASA-CASE-NPO-10250	c 23	N71-16212 *	NASA-CASE-NPO-10821	c 03	N71-19545 *	NASA-CASE-NPO-11418-1	c 14	N73-13420 *
NASA-CASE-NPO-10251	c 10	N71-27365 *	NASA-CASE-NPO-10828	c 33	N72-17948 *	NASA-CASE-NPO-11426	c 07	N73-26119 *
NASA-CASE-NPO-10271	c 17	N71-16393 *	NASA-CASE-NPO-10830-1	c 27	N81-15104 *	NASA-CASE-NPO-11429-1	c 74	N77-21941 *
NASA-CASE-NPO-10298	c 12	N71-17661 *	NASA-CASE-NPO-10831	c 33	N72-20915 *	NASA-CASE-NPO-11432-2	c 35	N74-15090 *
NASA-CASE-NPO-10300	c 14	N71-17662 *	NASA-CASE-NPO-10832	c 14	N72-21405 *	NASA-CASE-NPO-11437	c 16	N72-28521 *
NASA-CASE-NPO-10301	c 07	N72-11148 *	NASA-CASE-NPO-10844	c 07	N72-20140 *	NASA-CASE-NPO-11456	c 08	N73-26176 *
NASA-CASE-NPO-10302	c 10	N71-26142 *	NASA-CASE-NPO-10851	c 07	N71-24613 *	NASA-CASE-NPO-11458A	c 20	N78-32179 *
NASA-CASE-NPO-10303	c 07	N72-22127 *	NASA-CASE-NPO-10857-1	c 33	N80-14330 *	NASA-CASE-NPO-11458	c 28	N72-23810 *
NASA-CASE-NPO-10309	c 15	N69-23190 *	NASA-CASE-NPO-10862	c 06	N72-22107 *	NASA-CASE-NPO-11479	c 15	N73-13462 *
NASA-CASE-NPO-10311	c 31	N71-15643 *	NASA-CASE-NPO-10863-2	c 06	N72-25152 *	NASA-CASE-NPO-11481	c 21	N73-13644 *
NASA-CASE-NPO-10316-1	c 37	N77-22479 *	NASA-CASE-NPO-10863	c 06	N70-11251 *	NASA-CASE-NPO-11493	c 14	N73-12447 *
NASA-CASE-NPO-10320	c 14	N71-17655 *	NASA-CASE-NPO-10866-1	c 28	N79-14228 *	NASA-CASE-NPO-11497	c 08	N73-25206 *
NASA-CASE-NPO-10331	c 09	N71-26701 *	NASA-CASE-NPO-10870-1	c 33	N77-22386 *	NASA-CASE-NPO-11510-1	c 33	N77-21315 *
NASA-CASE-NPO-10337	c 14	N71-15604 *	NASA-CASE-NPO-10872-1	c 35	N79-16246 *	NASA-CASE-NPO-11515-1	c 33	N77-13315 *
NASA-CASE-NPO-10342	c 10	N71-33407 *	NASA-CASE-NPO-10883	c 31	N72-22874 *	NASA-CASE-NPO-11548	c 07	N73-26118 *
NASA-CASE-NPO-10343	c 07	N71-27341 *	NASA-CASE-NPO-10890	c 11	N73-12265 *	NASA-CASE-NPO-11556	c 12	N72-25292 *
NASA-CASE-NPO-10344	c 10	N71-26544 *	NASA-CASE-NPO-10893	c 27	N73-22710 *	NASA-CASE-NPO-11559	c 28	N73-24784 *
NASA-CASE-NPO-10348	c 10	N71-12554 *	NASA-CASE-NPO-10895	c 14	N73-20478 *	NASA-CASE-NPO-11569	c 10	N73-26229 *
NASA-CASE-NPO-10351	c 08	N71-12503 *	NASA-CASE-NPO-10998-1	c 06	N73-32029 *	NASA-CASE-NPO-11572	c 07	N73-16121 *
NASA-CASE-NPO-10373	c 03	N71-18698 *	NASA-CASE-NPO-10999-1	c 06	N73-32029 *	NASA-CASE-NPO-11575-1	c 74	N81-19896 *
NASA-CASE-NPO-10388	c 07	N71-24622 *	NASA-CASE-NPO-11001	c 07	N72-21118 *	NASA-CASE-NPO-11593-1	c 07	N73-28012 *
NASA-CASE-NPO-10401	c 03	N72-20033 *	NASA-CASE-NPO-11002	c 14	N72-22441 *	NASA-CASE-NPO-11609-2	c 27	N77-31308 *
NASA-CASE-NPO-10404	c 03	N71-12255 *	NASA-CASE-NPO-11012	c 15	N72-11391 *	NASA-CASE-NPO-11623-1	c 71	N74-31148 *
NASA-CASE-NPO-10412	c 09	N71-28421 *	NASA-CASE-NPO-11013	c 11	N72-22247 *	NASA-CASE-NPO-11628-1	c 07	N73-30113 *
NASA-CASE-NPO-10416	c 12	N71-27332 *	NASA-CASE-NPO-11016	c 08	N73-31226 *	NASA-CASE-NPO-11630	c 08	N72-33172 *
NASA-CASE-NPO-10417	c 16	N71-33410 *	NASA-CASE-NPO-11018	c 08	N72-21200 *	NASA-CASE-NPO-11631	c 10	N73-12244 *
NASA-CASE-NPO-10424-1	c 27	N81-24258 *	NASA-CASE-NPO-11021	c 03	N72-20032 *	NASA-CASE-NPO-11659-1	c 35	N74-11283 *
NASA-CASE-NPO-10431	c 15	N71-29132 *	NASA-CASE-NPO-11023	c 09	N72-17155 *	NASA-CASE-NPO-11661	c 07	N73-14130 *
NASA-CASE-NPO-10440	c 15	N72-21466 *	NASA-CASE-NPO-11031	c 07	N71-33606 *	NASA-CASE-NPO-11682-1	c 35	N74-15127 *
NASA-CASE-NPO-10447	c 06	N70-11252 *	NASA-CASE-NPO-11036	c 15	N72-24522 *	NASA-CASE-NPO-11686	c 14	N73-25462 *
NASA-CASE-NPO-10467	c 23	N71-26654 *	NASA-CASE-NPO-11059	c 15	N72-17454 *	NASA-CASE-NPO-11703-1	c 10	N73-32144 *
NASA-CASE-NPO-10468	c 23	N71-33229 *	NASA-CASE-NPO-11064	c 07	N72-11150 *	NASA-CASE-NPO-11707	c 07	N73-25161 *
NASA-CASE-NPO-10539	c 07	N71-11285 *	NASA-CASE-NPO-11078	c 09	N72-25262 *	NASA-CASE-NPO-11738-1	c 09	N73-30185 *
NASA-CASE-NPO-10542	c 09	N72-27228 *	NASA-CASE-NPO-11082	c 08	N72-22167 *	NASA-CASE-NPO-11743-1	c 28	N74-27425 *
NASA-CASE-NPO-10548	c 16	N71-24831 *	NASA-CASE-NPO-11087	c 23	N71-29125 *	NASA-CASE-NPO-11749	c 14	N73-28486 *
NASA-CASE-NPO-10556	c 14	N71-27185 *	NASA-CASE-NPO-11088	c 08	N71-29034 *	NASA-CASE-NPO-11751	c 07	N73-24176 *
NASA-CASE-NPO-10557	c 27	N78-17214 *	NASA-CASE-NPO-11091	c 18	N72-22567 *	NASA-CASE-NPO-11758-1	c 31	N74-23065 *
NASA-CASE-NPO-10560	c 08	N72-22166 *	NASA-CASE-NPO-11095	c 15	N72-25455 *	NASA-CASE-NPO-11771	c 03	N73-20040 *
NASA-CASE-NPO-10567	c 08	N71-24633 *	NASA-CASE-NPO-11103-1	c 35	N77-27367 *	NASA-CASE-NPO-11775	c 26	N72-28761 *
NASA-CASE-NPO-10575	c 03	N72-25019 *	NASA-CASE-NPO-11104	c 08	N72-22165 *	NASA-CASE-NPO-11806-1	c 44	N74-19693 *
NASA-CASE-NPO-10591	c 03	N72-22041 *	NASA-CASE-NPO-11106	c 14	N70-34697 *	NASA-CASE-NPO-11820-1	c 32	N74-19788 *
NASA-CASE-NPO-10595	c 10	N71-25917 *	NASA-CASE-NPO-11118	c 03	N72-25021 *	NASA-CASE-NPO-11821-1	c 08	N73-26175 *
NASA-CASE-NPO-10596	c 06	N71-25929 *	NASA-CASE-NPO-11120-1	c 34	N74-18552 *	NASA-CASE-NPO-11850-1	c 32	N74-12912 *
NASA-CASE-NPO-10606	c 15	N72-25451 *	NASA-CASE-NPO-11129	c 09	N72-33204 *	NASA-CASE-NPO-11856-1	c 36	N74-15145 *
NASA-CASE-NPO-10607	c 09	N71-27232 *	NASA-CASE-NPO-11130	c 08	N72-20176 *	NASA-CASE-NPO-11861-1	c 36	N74-20009 *
NASA-CASE-NPO-10617-1	c 35	N74-22095 *	NASA-CASE-NPO-11133	c 10	N72-20223 *	NASA-CASE-NPO-11868	c 10	N73-20254 *
NASA-CASE-NPO-10619-1	c 35	N77-21393 *	NASA-CASE-NPO-11134	c 09	N72-21246 *	NASA-CASE-NPO-11880	c 28	N73-24783 *
NASA-CASE-NPO-10625	c 09	N71-26182 *	NASA-CASE-NPO-11138	c 03	N70-34646 *	NASA-CASE-NPO-11905-1	c 33	N74-12887 *
NASA-CASE-NPO-10629	c 08	N72-18184 *	NASA-CASE-NPO-11140	c 15	N72-17455 *	NASA-CASE-NPO-11907-1-NP	c 24	N91-31236 *
NASA-CASE-NPO-10633	c 03	N72-28025 *	NASA-CASE-NPO-11147	c 14	N72-27408 *	NASA-CASE-NPO-11919-1	c 35	N74-11824 *
NASA-CASE-NPO-10634	c 23	N72-25619 *	NASA-CASE-NPO-11150	c 35	N78-17359 *	NASA-CASE-NPO-11921-1	c 32	N74-30523 *
NASA-CASE-NPO-10636	c 08	N72-25210 *	NASA-CASE-NPO-11156-2	c 33	N75-31331 *	NASA-CASE-NPO-11932-1	c 35	N74-23040 *
NASA-CASE-NPO-10637	c 15	N72-12409 *	NASA-CASE-NPO-11161	c 08	N72-25207 *	NASA-CASE-NPO-11941-1	c 10	N73-27171 *
NASA-CASE-NPO-10646	c 15	N71-28467 *	NASA-CASE-NPO-11177	c 15	N72-17453 *	NASA-CASE-NPO-11942-1	c 33	N73-32818 *
NASA-CASE-NPO-10649	c 07	N71-24840 *	NASA-CASE-NPO-11190	c 03	N71-34044 *	NASA-CASE-NPO-11945-1	c 36	N76-18427 *
NASA-CASE-NPO-10671	c 15	N72-20443 *	NASA-CASE-NPO-11191-1	c 33	N77-22386 *	NASA-CASE-NPO-11948-1	c 33	N74-32712 *
NASA-CASE-NPO-10677	c 05	N72-11084 *	NASA-CASE-NPO-11194	c 08	N72-25209 *	NASA-CASE-NPO-11951-1	c 37	N74-21065 *
NASA-CASE-NPO-10679	c 15	N72-21462 *	NASA-CASE-NPO-11201	c 14	N72-27409 *	NASA-CASE-NPO-11954-1	c 35	N78-29421 *
NASA-CASE-NPO-10680	c 31	N73-14855 *	NASA-CASE-NPO-11202	c 15	N72-25450 *	NASA-CASE-NPO-11961-1	c 44	N76-18643 *
NASA-CASE-NPO-10682	c 15	N70-34699 *	NASA-CASE-NPO-11203	c 10	N72-20224 *	NASA-CASE-NPO-11962-1	c 33	N74-10194 *
NASA-CASE-NPO-10691	c 14	N71-26199 *	NASA-CASE-NPO-11210	c 11	N72-20244 *	NASA-CASE-NPO-11966-1	c 33	N74-17928 *
NASA-CASE-NPO-10694	c 09	N72-20200 *	NASA-CASE-NPO-11213	c 15	N73-20514 *	NASA-CASE-NPO-11975-1	c 28	N74-33209 *
NASA-CASE-NPO-10700	c 07	N71-33613 *	NASA-CASE-NPO-11222	c 15	N72-25456 *	NASA-CASE-NPO-11978	c 31	N78-17238 *
NASA-CASE-NPO-10701	c 06	N71-28620 *	NASA-CASE-NPO-11239	c 14	N73-12446 *	NASA-CASE-NPO-12000	c 27	N72-25699 *
NASA-CASE-NPO-10704	c 15	N72-20445 *	NASA-CASE-NPO-11243	c 07	N72-20154 *	NASA-CASE-NPO-12015	c 27	N73-16764 *
NASA-CASE-NPO-10711-1	c 35	N77-21392 *	NASA-CASE-NPO-11253	c 09	N72-17157 *	NASA-CASE-NPO-12061-1	c 27	N76-16228 *
NASA-CASE-NPO-10714	c 06	N69-31244 *	NASA-CASE-NPO-11264	c 07	N72-25174 *	NASA-CASE-NPO-12070-1	c 28	N73-32606 *
NASA-CASE-NPO-10716	c 09	N71-24892 *	NASA-CASE-NPO-11282	c 10	N73-16205 *	NASA-CASE-NPO-12072	c 28	N72-22772 *
NASA-CASE-NPO-10721	c 15	N72-27484 *	NASA-CASE-NPO-11283	c 09	N72-25260 *	NASA-CASE-NPO-12087-1	c 74	N81-19898 *
NASA-CASE-NPO-10722	c 09	N72-20199 *	NASA-CASE-NPO-11291-1	c 14	N73-30388 *	NASA-CASE-NPO-12106	c 09	N73-15235 *
NASA-CASE-NPO-10737	c 28	N72-11709 *	NASA-CASE-NPO-11302-1	c 07	N73-13149 *	NASA-CASE-NPO-12107	c 08	N71-27255 *
NASA-CASE-NPO-10743	c 08	N72-21199 *	NASA-CASE-NPO-11302-2	c 32	N74-10132 *	NASA-CASE-NPO-12109	c 11	N72-22245 *
NASA-CASE-NPO-10745	c 08	N72-22164 *	NASA-CASE-NPO-11304	c 14	N73-26430 *	NASA-CASE-NPO-12119-1	c 52	N75-15270 *
NASA-CASE-NPO-10747	c 03	N72-22042 *	NASA-CASE-NPO-11307-1	c 10	N73-30205 *	NASA-CASE-NPO-12122-1	c 24	N76-14203 *
NASA-CASE-NPO-10748	c 08	N72-20177 *	NASA-CASE-NPO-11311	c 14	N72-25414 *	NASA-CASE-NPO-12127-1	c 91	N74-13130 *
NASA-CASE-NPO-10753	c 03	N72-26031 *	NASA-CASE-NPO-11317-2	c 36	N74-13205 *	NASA-CASE-NPO-12128-1	c 14	N73-32317 *
NASA-CASE-NPO-10755	c 15	N71-27084 *	NASA-CASE-NPO-11322	c 06	N72-25146 *	NASA-CASE-NPO-12130-1	c 25	N75-14844 *
NASA-CASE-NPO-10758	c 14	N73-14427 *	NASA-CASE-NPO-11330	c 33	N73-26958 *	NASA-CASE-NPO-12131-3	c 37	N80-18400 *
NASA-CASE-NPO-10760	c 09	N72-25254 *	NASA-CASE-NPO-11333	c 08	N72-22162 *	NASA-CASE-NPO-12134-1	c 33	N76-31409 *
NASA-CASE-NPO-10764-1	c 14	N73-14428 *	NASA-CASE-NPO-11336-1	c 76	N79-16678 *	NASA-CASE-NPO-12142-1	c 38	N76-28563 *
NASA-CASE-NPO-10764-2	c 35	N75-25122 *	NASA-CASE-NPO-11337-1	c 74	N81-19896 *	NASA-CASE-NPO-12148-1	c 44	N78-27515 *
NASA-CASE-NPO-10765	c 06	N72-20121 *	NASA-CASE-NPO-11338	c 08	N72-25208 *	NASA-CASE-NPO-13044-1	c 35	N74-15094 *
NASA-CASE-NPO-10767-1	c 06	N73-33076 *	NASA-CASE-NPO-11340	c 15	N72-33477 *	NASA-CASE-NPO-13050-1	c 36	N75-15029 *
NASA-CASE-NPO-10767-2	c 06	N72-27151 *	NASA-CASE-NPO-11342	c 09	N72-25248 *	NASA-CASE-NPO-13058-1	c 37	N77-22480 *
NASA-CASE-NPO-10768-2	c 06	N72-27144 *	NASA-CASE-NPO-11358	c 07	N72-25172 *	NASA-CASE-NPO-13059-1	c 37	N76-20480 *

REPORT NUMBER INDEX

NASA-CASE-NPO-14444-1

NASA-CASE-NPO-13063-1	c 25	N76-18245 *	NASA-CASE-NPO-13545-1	c 32	N77-12240 *	NASA-CASE-NPO-13953-1	c 35	N79-28527 *
NASA-CASE-NPO-13064-1	c 33	N79-11314 *	NASA-CASE-NPO-13550-1	c 36	N77-26477 *	NASA-CASE-NPO-13958-1	c 25	N79-11151 *
NASA-CASE-NPO-13065-1	c 52	N74-26625 *	NASA-CASE-NPO-13553-1	c 33	N76-32457 *	NASA-CASE-NPO-13969-1	c 76	N79-23798 *
NASA-CASE-NPO-13067-1	c 60	N76-18800 *	NASA-CASE-NPO-13556-1	c 35	N84-33766 *	NASA-CASE-NPO-13970-1	c 33	N81-20352 *
NASA-CASE-NPO-13081-1	c 33	N74-22814 *	NASA-CASE-NPO-13560-1	c 44	N77-10636 *	NASA-CASE-NPO-13982-1	c 32	N79-14267 *
NASA-CASE-NPO-13086-1	c 15	N73-12495 *	NASA-CASE-NPO-13561-1	c 44	N77-10636 *	NASA-CASE-NPO-13993-1	c 72	N79-13826 *
NASA-CASE-NPO-13087-2	c 44	N76-31666 *	NASA-CASE-NPO-13566-1	c 25	N77-32255 *	NASA-CASE-NPO-13999-1	c 35	N78-18395 *
NASA-CASE-NPO-13091-1	c 09	N73-12214 *	NASA-CASE-NPO-13567-1	c 44	N76-29701 *	NASA-CASE-NPO-14000-1	c 33	N79-24254 *
NASA-CASE-NPO-13096-1	c 37	N77-22480 *	NASA-CASE-NPO-13568-1	c 32	N76-21365 *	NASA-CASE-NPO-14001-1	c 27	N81-14076 *
NASA-CASE-NPO-13103-1	c 32	N74-20811 *	NASA-CASE-NPO-13569-2	c 35	N79-14348 *	NASA-CASE-NPO-14005-1	c 71	N79-20827 *
NASA-CASE-NPO-13105-1	c 37	N74-21060 *	NASA-CASE-NPO-13579-1	c 44	N78-17460 *	NASA-CASE-NPO-14009-1	c 32	N79-13214 *
NASA-CASE-NPO-13112-1	c 73	N74-26767 *	NASA-CASE-NPO-13579-2	c 44	N79-24433 *	NASA-CASE-NPO-14014-1	c 37	N79-10420 *
NASA-CASE-NPO-13114-2	c 73	N78-28913 *	NASA-CASE-NPO-13579-3	c 44	N79-24432 *	NASA-CASE-NPO-14019-1	c 32	N79-14268 *
NASA-CASE-NPO-13120-1	c 27	N76-15311 *	NASA-CASE-NPO-13579-4	c 44	N79-14529 *	NASA-CASE-NPO-14021-2	c 27	N80-16163 *
NASA-CASE-NPO-13121-1	c 73	N77-18891 *	NASA-CASE-NPO-13581-2	c 44	N78-31525 *	NASA-CASE-NPO-14022-1	c 32	N78-31321 *
NASA-CASE-NPO-13125-1	c 33	N75-19519 *	NASA-CASE-NPO-13587-1	c 32	N77-32342 *	NASA-CASE-NPO-14035-1	c 32	N83-19968 *
NASA-CASE-NPO-13127-1	c 35	N74-23040 *	NASA-CASE-NPO-13604-1	c 35	N76-31490 *	NASA-CASE-NPO-14054-1	c 32	N82-12297 *
NASA-CASE-NPO-13131-1	c 36	N75-19652 *	NASA-CASE-NPO-13606-2	c 35	N80-18364 *	NASA-CASE-NPO-14056-1	c 33	N79-24257 *
NASA-CASE-NPO-13137-1	c 27	N80-32514 *	NASA-CASE-NPO-13613-1	c 37	N76-29590 *	NASA-CASE-NPO-14058-1	c 44	N79-18443 *
NASA-CASE-NPO-13138-1	c 33	N74-17927 *	NASA-CASE-NPO-13619-1	c 37	N78-16369 *	NASA-CASE-NPO-14066-1	c 74	N79-34011 *
NASA-CASE-NPO-13139-1	c 60	N76-21914 *	NASA-CASE-NPO-13620-1	c 27	N77-30236 *	NASA-CASE-NPO-14078-1	c 72	N80-14877 *
NASA-CASE-NPO-13140-1	c 32	N75-24982 *	NASA-CASE-NPO-13641-1	c 32	N79-24210 *	NASA-CASE-NPO-14079-1	c 25	N80-20334 *
NASA-CASE-NPO-13147-1	c 36	N77-25502 *	NASA-CASE-NPO-13643-1	c 52	N76-29896 *	NASA-CASE-NPO-14092-1	c 52	N80-16725 *
NASA-CASE-NPO-13157-1	c 37	N74-32918 *	NASA-CASE-NPO-13644-1	c 52	N76-29895 *	NASA-CASE-NPO-14093-1	c 35	N80-20563 *
NASA-CASE-NPO-13159-1	c 33	N74-17928 *	NASA-CASE-NPO-13650-1	c 25	N79-28253 *	NASA-CASE-NPO-14096-1	c 44	N80-18551 *
NASA-CASE-NPO-13160-1	c 35	N74-18090 *	NASA-CASE-NPO-13652-1	c 44	N79-17314 *	NASA-CASE-NPO-14100-1	c 44	N79-12541 *
NASA-CASE-NPO-13170-1	c 35	N76-14430 *	NASA-CASE-NPO-13652-2	c 44	N79-24431 *	NASA-CASE-NPO-14101-1	c 52	N80-14687 *
NASA-CASE-NPO-13171-1	c 32	N74-11000 *	NASA-CASE-NPO-13652-3	c 44	N80-14474 *	NASA-CASE-NPO-14103-1	c 28	N78-31255 *
NASA-CASE-NPO-13175-1	c 36	N75-31427 *	NASA-CASE-NPO-13663-1	c 35	N77-14406 *	NASA-CASE-NPO-14109-1	c 28	N80-23471 *
NASA-CASE-NPO-13201-1	c 37	N75-15050 *	NASA-CASE-NPO-13666-1	c 27	N77-13217 *	NASA-CASE-NPO-14110-1	c 28	N81-15119 *
NASA-CASE-NPO-13205-1	c 31	N74-32917 *	NASA-CASE-NPO-13671-1	c 37	N77-31497 *	NASA-CASE-NPO-14112-1	c 46	N79-22679 *
NASA-CASE-NPO-13214-1	c 35	N75-25123 *	NASA-CASE-NPO-13673-1	c 71	N77-26919 *	NASA-CASE-NPO-14124-1	c 46	N80-14603 *
NASA-CASE-NPO-13215-1	c 35	N75-25123 *	NASA-CASE-NPO-13675-1	c 44	N77-32580 *	NASA-CASE-NPO-14126-1	c 44	N79-11470 *
NASA-CASE-NPO-13217-1	c 32	N75-26194 *	NASA-CASE-NPO-13676-1	c 60	N79-20751 *	NASA-CASE-NPO-14130-1	c 34	N79-20335 *
NASA-CASE-NPO-13231-1	c 45	N75-27585 *	NASA-CASE-NPO-13683-1	c 35	N77-14411 *	NASA-CASE-NPO-14134-1	c 71	N79-23753 *
NASA-CASE-NPO-13237-1	c 44	N76-18641 *	NASA-CASE-NPO-13687-1	c 35	N78-18391 *	NASA-CASE-NPO-14140-1	c 43	N81-26509 *
NASA-CASE-NPO-13247-1	c 76	N79-16678 *	NASA-CASE-NPO-13689-2	c 44	N81-29525 *	NASA-CASE-NPO-14143-1	c 25	N81-14015 *
NASA-CASE-NPO-13253-1	c 37	N75-18573 *	NASA-CASE-NPO-13689-4	c 44	N82-28780 *	NASA-CASE-NPO-14152-1	c 32	N80-18252 *
NASA-CASE-NPO-13263-1	c 12	N75-24774 *	NASA-CASE-NPO-13690-1	c 27	N78-19302 *	NASA-CASE-NPO-14162-1	c 60	N81-15706 *
NASA-CASE-NPO-13274-1	c 25	N79-10163 *	NASA-CASE-NPO-13690-2	c 27	N79-14213 *	NASA-CASE-NPO-14163-1	c 33	N81-14220 *
NASA-CASE-NPO-13281-1	c 37	N75-13266 *	NASA-CASE-NPO-13691-1	c 43	N79-17288 *	NASA-CASE-NPO-14167-1	c 60	N81-15706 *
NASA-CASE-NPO-13282	c 38	N78-17396 *	NASA-CASE-NPO-13707-1	c 74	N77-28933 *	NASA-CASE-NPO-14169-1	c 60	N81-15706 *
NASA-CASE-NPO-13283	c 38	N78-17395 *	NASA-CASE-NPO-13722-1	c 74	N77-22951 *	NASA-CASE-NPO-14170-1	c 37	N81-15364 *
NASA-CASE-NPO-13292-1	c 32	N75-15854 *	NASA-CASE-NPO-13731-1	c 39	N78-10493 *	NASA-CASE-NPO-14173-1	c 04	N80-32359 *
NASA-CASE-NPO-13303-1	c 20	N75-24837 *	NASA-CASE-NPO-13732-1	c 44	N79-10513 *	NASA-CASE-NPO-14174-1	c 74	N79-20856 *
NASA-CASE-NPO-13308-1	c 36	N75-30524 *	NASA-CASE-NPO-13734-1	c 44	N78-10554 *	NASA-CASE-NPO-14191-1	c 31	N80-32584 *
NASA-CASE-NPO-13309-1	c 25	N81-19244 *	NASA-CASE-NPO-13736-1	c 44	N77-32583 *	NASA-CASE-NPO-14192-1	c 39	N80-10507 *
NASA-CASE-NPO-13313-1	c 54	N75-27761 *	NASA-CASE-NPO-13753-1	c 32	N77-20289 *	NASA-CASE-NPO-14199-1	c 44	N79-25482 *
NASA-CASE-NPO-13321-1	c 32	N75-26195 *	NASA-CASE-NPO-13758-2	c 31	N81-15154 *	NASA-CASE-NPO-14200-1	c 44	N79-25482 *
NASA-CASE-NPO-13327-1	c 35	N75-23910 *	NASA-CASE-NPO-13759-1	c 74	N78-17867 *	NASA-CASE-NPO-14205-1	c 44	N79-31752 *
NASA-CASE-NPO-13342-1	c 37	N76-16446 *	NASA-CASE-NPO-13763-1	c 44	N78-33526 *	NASA-CASE-NPO-14212-1	c 52	N80-27072 *
NASA-CASE-NPO-13342-2	c 44	N76-29700 *	NASA-CASE-NPO-13764-1	c 27	N78-17215 *	NASA-CASE-NPO-14219-1	c 74	N81-17886 *
NASA-CASE-NPO-13345-1	c 37	N75-19684 *	NASA-CASE-NPO-13772-1	c 35	N78-10429 *	NASA-CASE-NPO-14220-1	c 37	N81-14318 *
NASA-CASE-NPO-13346-1	c 36	N76-29575 *	NASA-CASE-NPO-13786-1	c 44	N80-29835 *	NASA-CASE-NPO-14221-1	c 37	N81-25370 *
NASA-CASE-NPO-13348-1	c 33	N75-31332 *	NASA-CASE-NPO-13792-1	c 35	N77-32455 *	NASA-CASE-NPO-14224-1	c 33	N80-18287 *
NASA-CASE-NPO-13360-1	c 37	N75-25185 *	NASA-CASE-NPO-13801-1	c 36	N78-18410 *	NASA-CASE-NPO-14229-1	c 33	N80-18285 *
NASA-CASE-NPO-13374-1	c 33	N75-19524 *	NASA-CASE-NPO-13802-1	c 71	N78-10837 *	NASA-CASE-NPO-14231-1	c 46	N80-10709 *
NASA-CASE-NPO-13385-1	c 33	N76-18345 *	NASA-CASE-NPO-13804-1	c 33	N80-23559 *	NASA-CASE-NPO-14237-1	c 44	N80-20808 *
NASA-CASE-NPO-13386-1	c 54	N75-27758 *	NASA-CASE-NPO-13808-1	c 35	N78-15461 *	NASA-CASE-NPO-14253-1	c 32	N80-32605 *
NASA-CASE-NPO-13388-1	c 35	N76-16390 *	NASA-CASE-NPO-13810-1	c 44	N77-32582 *	NASA-CASE-NPO-14254-1	c 36	N80-18372 *
NASA-CASE-NPO-13391-1	c 34	N76-27515 *	NASA-CASE-NPO-13812-1	c 33	N77-30365 *	NASA-CASE-NPO-14255-1	c 46	N79-23555 *
NASA-CASE-NPO-13396-1	c 35	N76-18401 *	NASA-CASE-NPO-13813-1	c 44	N78-31526 *	NASA-CASE-NPO-14258-1	c 35	N81-33448 *
NASA-CASE-NPO-13402-1	c 37	N76-18457 *	NASA-CASE-NPO-13817-1	c 44	N79-11471 *	NASA-CASE-NPO-14260-1	c 28	N79-28342 *
NASA-CASE-NPO-13422-1	c 60	N76-14818 *	NASA-CASE-NPO-13821-1	c 44	N78-28594 *	NASA-CASE-NPO-14272-1	c 25	N81-33246 *
NASA-CASE-NPO-13423-1	c 33	N75-31329 *	NASA-CASE-NPO-13823-1	c 37	N81-25371 *	NASA-CASE-NPO-14273-1	c 25	N82-11144 *
NASA-CASE-NPO-13426-1	c 33	N75-31330 *	NASA-CASE-NPO-13828-1	c 37	N79-11405 *	NASA-CASE-NPO-14295-1	c 76	N80-32245 *
NASA-CASE-NPO-13428-1	c 60	N77-12721 *	NASA-CASE-NPO-13830-1	c 32	N80-14281 *	NASA-CASE-NPO-14297-1	c 33	N81-19389 *
NASA-CASE-NPO-13435-1	c 31	N76-14284 *	NASA-CASE-NPO-13836-1	c 32	N78-15323 *	NASA-CASE-NPO-14298-1	c 76	N80-32244 *
NASA-CASE-NPO-13436-1	c 37	N76-20480 *	NASA-CASE-NPO-13839-1	c 31	N78-25256 *	NASA-CASE-NPO-14303-1	c 44	N80-18550 *
NASA-CASE-NPO-13443-1	c 76	N76-20994 *	NASA-CASE-NPO-13847-2	c 85	N79-17747 *	NASA-CASE-NPO-14305-1	c 44	N80-18550 *
NASA-CASE-NPO-13447-1	c 60	N77-12721 *	NASA-CASE-NPO-13848-2	c 85	N79-17747 *	NASA-CASE-NPO-14311-1	c 33	N82-29539 *
NASA-CASE-NPO-13449-1	c 36	N75-32441 *	NASA-CASE-NPO-13849-1	c 28	N80-10374 *	NASA-CASE-NPO-14315-1	c 27	N81-17261 *
NASA-CASE-NPO-13451-1	c 33	N76-14373 *	NASA-CASE-NPO-13858-1	c 28	N79-11231 *	NASA-CASE-NPO-14316-1	c 33	N81-33404 *
NASA-CASE-NPO-13459-1	c 31	N77-10229 *	NASA-CASE-NPO-13859-1	c 28	N79-11231 *	NASA-CASE-NPO-14324-1	c 72	N80-27163 *
NASA-CASE-NPO-13462-1	c 35	N76-24524 *	NASA-CASE-NPO-13862-1	c 35	N79-10391 *	NASA-CASE-NPO-14328-1	c 32	N80-18203 *
NASA-CASE-NPO-13464-1	c 44	N76-18642 *	NASA-CASE-NPO-13867-1	c 27	N78-14164 *	NASA-CASE-NPO-14329-1	c 52	N81-20703 *
NASA-CASE-NPO-13464-2	c 44	N76-29704 *	NASA-CASE-NPO-13872-1	c 33	N78-10377 *	NASA-CASE-NPO-14340-1	c 45	N80-14579 *
NASA-CASE-NPO-13465-1	c 32	N76-31372 *	NASA-CASE-NPO-13877-1	c 45	N82-11634 *	NASA-CASE-NPO-14350-1	c 33	N80-14332 *
NASA-CASE-NPO-13474-1	c 45	N76-21742 *	NASA-CASE-NPO-13886-1	c 32	N78-24391 *	NASA-CASE-NPO-14361-1	c 32	N82-23376 *
NASA-CASE-NPO-13479-1	c 35	N77-10492 *	NASA-CASE-NPO-13899-1	c 27	N80-32515 *	NASA-CASE-NPO-14362-1	c 32	N80-16261 *
NASA-CASE-NPO-13482-1	c 44	N78-13526 *	NASA-CASE-NPO-13904-1	c 25	N79-11152 *	NASA-CASE-NPO-14363-1	c 39	N81-25400 *
NASA-CASE-NPO-13490-1	c 36	N76-31512 *	NASA-CASE-NPO-13906-1	c 54	N79-24652 *	NASA-CASE-NPO-14369-1	c 44	N83-10501 *
NASA-CASE-NPO-13497-1	c 44	N76-14602 *	NASA-CASE-NPO-13907-1	c 28	N80-10374 *	NASA-CASE-NPO-14372-1	c 35	N80-26635 *
NASA-CASE-NPO-13504-1	c 33	N75-30430 *	NASA-CASE-NPO-13909-1	c 33	N78-25319 *	NASA-CASE-NPO-14382-1	c 31	N80-18231 *
NASA-CASE-NPO-13506-1	c 35	N76-15435 *	NASA-CASE-NPO-13910-1	c 52	N79-27836 *	NASA-CASE-NPO-14384-1	c 37	N80-10494 *
NASA-CASE-NPO-13510-1	c 44	N77-32581 *	NASA-CASE-NPO-13913-1	c 52	N79-12694 *	NASA-CASE-NPO-14387-1	c 43	N81-26509 *
NASA-CASE-NPO-13512-1	c 33	N77-10428 *	NASA-CASE-NPO-13914-1	c 44	N78-31526 *	NASA-CASE-NPO-14388-1	c 37	N81-17432 *
NASA-CASE-NPO-13519-1	c 33	N76-19338 *	NASA-CASE-NPO-13918-1	c 76	N79-11920 *	NASA-CASE-NPO-14395-1	c 37	N82-21587 *
NASA-CASE-NPO-13528-1	c 09	N77-10071 *	NASA-CASE-NPO-13921-1	c 44	N79-14526 *	NASA-CASE-NPO-14402-1	c 52	N81-27783 *
NASA-CASE-NPO-13530-1	c 25	N81-17187 *	NASA-CASE-NPO-13930-1	c 52	N79-14749 *	NASA-CASE-NPO-14406-1	c 37	N80-29703 *
NASA-CASE-NPO-13531-1	c 36	N76-24553 *	NASA-CASE-NPO-13935-1	c 52	N79-14751 *	NASA-CASE-NPO-14416-1	c 44	N81-14389 *
NASA-CASE-NPO-13535-1	c 37	N76-31524 *	NASA-CASE-NPO-13937-1	c 44	N78-31527 *	NASA-CASE-NPO-14424-1	c 33	N80-32650 *
NASA-CASE-NPO-13540-1	c 35	N77-14409 *	NASA-CASE-NPO-13941-1	c 32	N79-10262 *	NASA-CASE-NPO-14426-1	c 33	N81-27396 *
NASA-CASE-NPO-13541-1	c 37	N79-14383 *	NASA-CASE-NPO-13944-1	c 52	N79-14751 *	NASA-CASE-NPO-14430-1	c 33	N80-32650 *
NASA-CASE-NPO-13543-1	c 32	N77-12240 *	NASA-CASE-NPO-13945-1	c 36	N78-27402 *	NASA-CASE-NPO-14435-1	c 33	N81-33405 *
NASA-CASE-NPO-13544-1	c 36	N76-18428 *	NASA-CASE-NPO-13948-1	c 35	N78-25391 *	NASA-CASE-NPO-14444-1	c 33	N81-15192 *

NASA-CASE-NPO-14448-1	c 74	N81-29963 *	NASA-CASE-NPO-15432-1	c 32	N85-29117 *	NASA-CASE-NPO-16402-2	c 33	N88-24862 *
NASA-CASE-NPO-14467-1	c 44	N79-31753 *	NASA-CASE-NPO-15433-1	c 32	N85-21428 *	NASA-CASE-NPO-16414-1-CU	c 32	N87-25511 *
NASA-CASE-NPO-14473-1	c 37	N80-23654 *	NASA-CASE-NPO-15435-1	c 71	N83-36846 *	NASA-CASE-NPO-16420-1	c 33	N86-20681 *
NASA-CASE-NPO-14474-1	c 26	N80-14229 *	NASA-CASE-NPO-15453-1	c 71	N83-32515 *	NASA-CASE-NPO-16423-1-CU	c 37	N87-21334 *
NASA-CASE-NPO-14477-1	c 28	N80-28536 *	NASA-CASE-NPO-15458-1	c 25	N84-12262 *	NASA-CASE-NPO-16433-1	c 36	N87-23961 *
NASA-CASE-NPO-14480-1	c 32	N80-20448 *	NASA-CASE-NPO-15464-1	c 74	N85-29749 *	NASA-CASE-NPO-16461-1-CU	c 60	N89-26400 *
NASA-CASE-NPO-14501-1	c 35	N80-18357 *	NASA-CASE-NPO-15465-1	c 34	N84-22903 *	NASA-CASE-NPO-16462-1-CU	c 60	N88-24169 *
NASA-CASE-NPO-14502-1	c 74	N81-17888 *	NASA-CASE-NPO-15466-1	c 71	N85-22104 *	NASA-CASE-NPO-16464-1-CU	c 60	N86-24224 *
NASA-CASE-NPO-14505-1	c 33	N81-19393 *	NASA-CASE-NPO-15482-1	c 37	N87-23970 *	NASA-CASE-NPO-16467-1-CU	c 33	N87-23879 *
NASA-CASE-NPO-14513-1	c 35	N81-14287 *	NASA-CASE-NPO-15483-1	c 37	N85-21650 *	NASA-CASE-NPO-16479-1-CU	c 35	N86-32695 *
NASA-CASE-NPO-14519-1	c 32	N80-23524 *	NASA-CASE-NPO-15494-1	c 35	N82-25484 *	NASA-CASE-NPO-16494-1-CU	c 34	N85-29182 *
NASA-CASE-NPO-14521-1	c 37	N81-27519 *	NASA-CASE-NPO-15496-1	c 44	N84-23018 *	NASA-CASE-NPO-16497-1-CU	c 36	N87-25567 *
NASA-CASE-NPO-14524-1	c 32	N80-24510 *	NASA-CASE-NPO-15516-1	c 36	N84-22943 *	NASA-CASE-NPO-16526-1-CU	c 44	N87-17399 *
NASA-CASE-NPO-14525-1	c 32	N79-19195 *	NASA-CASE-NPO-15519-1	c 32	N84-34651 *	NASA-CASE-NPO-16542-1-CU	c 36	N87-23960 *
NASA-CASE-NPO-14525-2	c 32	N83-31918 *	NASA-CASE-NPO-15522-1	c 71	N83-32516 *	NASA-CASE-NPO-16544-1-CU	c 35	N87-22953 *
NASA-CASE-NPO-14527-1	c 32	N80-24510 *	NASA-CASE-NPO-15530-1	c 76	N83-35888 *	NASA-CASE-NPO-16558-1-CU	c 74	N87-23259 *
NASA-CASE-NPO-14536-1	c 32	N81-14185 *	NASA-CASE-NPO-15539-1	c 37	N82-11469 *	NASA-CASE-NPO-16567-1-CU	c 36	N87-28006 *
NASA-CASE-NPO-14542-1	c 25	N82-23282 *	NASA-CASE-NPO-15547-1	c 72	N84-16959 *	NASA-CASE-NPO-16584-1-CU	c 76	N86-25269 *
NASA-CASE-NPO-14544-1	c 46	N82-12685 *	NASA-CASE-NPO-15553-1	c 33	N85-29142 *	NASA-CASE-NPO-16607-1-CU	c 76	N88-14836 *
NASA-CASE-NPO-14549-2	c 52	N82-33996 *	NASA-CASE-NPO-15558-1	c 35	N84-34705 *	NASA-CASE-NPO-16617-2-CU	c 35	N90-17118 *
NASA-CASE-NPO-14554-1	c 60	N81-27814 *	NASA-CASE-NPO-15559-1	c 71	N85-30765 *	NASA-CASE-NPO-16632-1-CU	c 32	N87-15390 *
NASA-CASE-NPO-14556-1	c 33	N82-24418 *	NASA-CASE-NPO-15560-1	c 33	N85-21491 *	NASA-CASE-NPO-16635-1-CU	c 31	N91-32240 *
NASA-CASE-NPO-14558-1	c 46	N80-24906 *	NASA-CASE-NPO-15562-1	c 71	N82-27086 *	NASA-CASE-NPO-16640-1-CU	c 72	N87-21661 *
NASA-CASE-NPO-14567-1	c 33	N83-18996 *	NASA-CASE-NPO-15592-1	c 71	N84-16940 *	NASA-CASE-NPO-16675-1-CU	c 71	N88-24241 *
NASA-CASE-NPO-14579-1	c 32	N80-18253 *	NASA-CASE-NPO-15609-2	c 25	N88-23846 *	NASA-CASE-NPO-16681-1-CU	c 76	N88-24543 *
NASA-CASE-NPO-14588-1	c 32	N81-25278 *	NASA-CASE-NPO-15617-1	c 35	N87-21304 *	NASA-CASE-NPO-16734-1-CU	c 31	N88-14223 *
NASA-CASE-NPO-14590-1	c 32	N80-18253 *	NASA-CASE-NPO-15625-1	c 76	N83-20789 *	NASA-CASE-NPO-16750-1-CU	c 74	N89-14078 *
NASA-CASE-NPO-14596-1	c 31	N81-33319 *	NASA-CASE-NPO-15629-1	c 76	N84-35113 *	NASA-CASE-NPO-16764-1-CU	c 33	N88-14270 *
NASA-CASE-NPO-14596-3	c 31	N83-31896 *	NASA-CASE-NPO-15640-1	c 27	N84-22748 *	NASA-CASE-NPO-16766-1-CU	c 37	N89-13785 *
NASA-CASE-NPO-14597-2	c 37	N84-28081 *	NASA-CASE-NPO-15644-1	c 35	N84-33767 *	NASA-CASE-NPO-16784-1	c 33	N87-10231 *
NASA-CASE-NPO-14617-1	c 33	N81-24338 *	NASA-CASE-NPO-15651-1	c 43	N85-21723 *	NASA-CASE-NPO-16789-1-CU	c 72	N89-29169 *
NASA-CASE-NPO-14619-1	c 44	N81-17518 *	NASA-CASE-NPO-15656-1	c 43	N84-23012 *	NASA-CASE-NPO-16808-1-CU	c 76	N87-25868 *
NASA-CASE-NPO-14632-1	c 32	N82-18443 *	NASA-CASE-NPO-15658-1	c 26	N86-32551 *	NASA-CASE-NPO-16859-1-CU	c 60	N90-21527 *
NASA-CASE-NPO-14635-1	c 44	N80-24741 *	NASA-CASE-NPO-15662-1	c 44	N84-28204 *	NASA-CASE-NPO-16869-1-CU	c 74	N86-33138 *
NASA-CASE-NPO-14640-1	c 32	N80-32605 *	NASA-CASE-NPO-15689-1	c 71	N84-23233 *	NASA-CASE-NPO-16878-1-CU	c 35	N90-20351 *
NASA-CASE-NPO-14641-1	c 32	N81-29308 *	NASA-CASE-NPO-15696-1	c 33	N85-34333 *	NASA-CASE-NPO-16882-1-CU	c 33	N88-24863 *
NASA-CASE-NPO-14657-1	c 74	N81-17887 *	NASA-CASE-NPO-15704-1	c 32	N85-34327 *	NASA-CASE-NPO-16888-1-CU	c 33	N89-29681 *
NASA-CASE-NPO-14670-1	c 44	N81-19558 *	NASA-CASE-NPO-15706-1	c 35	N84-28017 *	NASA-CASE-NPO-16892-1-CU	c 37	N87-14704 *
NASA-CASE-NPO-14749-1	c 32	N81-14186 *	NASA-CASE-NPO-15722-1	c 35	N85-29212 *	NASA-CASE-NPO-16896-1-CU	c 71	N89-13236 *
NASA-CASE-NPO-14782-1	c 36	N82-28616 *	NASA-CASE-NPO-15743-1	c 32	N85-29118 *	NASA-CASE-NPO-16901-1-CU	c 31	N90-19425 *
NASA-CASE-NPO-14813-1	c 74	N82-24072 *	NASA-CASE-NPO-15753-1	c 27	N84-33589 *	NASA-CASE-NPO-16904-2-CU	c 32	N91-14523 *
NASA-CASE-NPO-14831-1	c 76	N82-30105 *	NASA-CASE-NPO-15759-1	c 35	N85-21596 *	NASA-CASE-NPO-16907-1-CU	c 25	N88-24732 *
NASA-CASE-NPO-14839-1	c 35	N82-15381 *	NASA-CASE-NPO-15767-1	c 23	N84-16255 *	NASA-CASE-NPO-16932-1-CU	c 33	N87-15413 *
NASA-CASE-NPO-14845-1	c 27	N82-28442 *	NASA-CASE-NPO-15772-1	c 76	N85-29800 *	NASA-CASE-NPO-16949-1-CU	c 62	N90-19776 *
NASA-CASE-NPO-14857-1	c 27	N83-19900 *	NASA-CASE-NPO-15786-1	c 76	N84-35112 *	NASA-CASE-NPO-16985-1-CU	c 31	N91-15423 *
NASA-CASE-NPO-14864-1	c 74	N83-19597 *	NASA-CASE-NPO-15789-1	c 31	N83-19947 *	NASA-CASE-NPO-16987-1-CU	c 32	N91-25316 *
NASA-CASE-NPO-14902-1	c 25	N82-29371 *	NASA-CASE-NPO-15790-1	c 36	N85-21631 *	NASA-CASE-NPO-16989-1-CU	c 35	N91-14587 *
NASA-CASE-NPO-14936-1	c 47	N83-32232 *	NASA-CASE-NPO-15800-2	c 76	N87-23286 *	NASA-CASE-NPO-16995-1-CU	c 71	N90-12289 *
NASA-CASE-NPO-14940-1	c 33	N83-31954 *	NASA-CASE-NPO-15801-1	c 74	N85-23396 *	NASA-CASE-NPO-17022-1-CU	c 29	N87-25489 *
NASA-CASE-NPO-14987-1	c 24	N83-33950 *	NASA-CASE-NPO-15805-1	c 74	N84-28590 *	NASA-CASE-NPO-17024-1-CU	c 35	N88-24943 *
NASA-CASE-NPO-14998-1	c 32	N83-18975 *	NASA-CASE-NPO-15808-1	c 44	N84-34792 *	NASA-CASE-NPO-17058-1-CU	c 62	N87-25803 *
NASA-CASE-NPO-15015-1	c 25	N82-28368 *	NASA-CASE-NPO-15811-1	c 76	N84-12968 *	NASA-CASE-NPO-17068-1-CU	c 35	N88-29151 *
NASA-CASE-NPO-15021-1	c 36	N83-10417 *	NASA-CASE-NPO-15813-2	c 76	N85-30922 *	NASA-CASE-NPO-17074-2-CU	c 76	N92-21499 *
NASA-CASE-NPO-15024-1	c 32	N84-27951 *	NASA-CASE-NPO-15815-1	c 76	N87-15882 *	NASA-CASE-NPO-17085-1-CU	c 31	N89-12785 *
NASA-CASE-NPO-15036-1	c 74	N82-19029 *	NASA-CASE-NPO-15851-1	c 37	N85-21652 *	NASA-CASE-NPO-17086-1-CU	c 35	N89-14422 *
NASA-CASE-NPO-15037-2	c 37	N85-29282 *	NASA-CASE-NPO-15865-1	c 74	N85-34629 *	NASA-CASE-NPO-17108-1-CU	c 33	N89-28713 *
NASA-CASE-NPO-15066-1	c 33	N82-29538 *	NASA-CASE-NPO-15890-1-CU	c 33	N85-29143 *	NASA-CASE-NPO-17122-1-CU	c 27	N91-14489 *
NASA-CASE-NPO-15070-1	c 31	N83-35176 *	NASA-CASE-NPO-15904-1	c 76	N86-28760 *	NASA-CASE-NPO-17134-1-CU	c 33	N91-31528 *
NASA-CASE-NPO-15071-1	c 44	N82-16475 *	NASA-CASE-NPO-15920-1	c 33	N85-21493 *	NASA-CASE-NPO-17139-1-CU	c 74	N88-25301 *
NASA-CASE-NPO-15100-1	c 44	N84-14583 *	NASA-CASE-NPO-15924-1	c 25	N85-35253 *	NASA-CASE-NPO-17140-1-CU	c 74	N89-14077 *
NASA-CASE-NPO-15102-1	c 25	N81-25159 *	NASA-CASE-NPO-15928-1	c 26	N85-29005 *	NASA-CASE-NPO-17143-1-CU	c 31	N89-14351 *
NASA-CASE-NPO-15111-1	c 36	N82-29589 *	NASA-CASE-NPO-15939-1	c 43	N86-19711 *	NASA-CASE-NPO-17144-1-CU	c 74	N88-25305 *
NASA-CASE-NPO-15115-1	c 37	N82-24493 *	NASA-CASE-NPO-15949-1	c 85	N85-34722 *	NASA-CASE-NPO-17157-1-CU	c 33	N88-26596 *
NASA-CASE-NPO-15155-1	c 74	N85-22139 *	NASA-CASE-NPO-15959-2	c 37	N91-14616 *	NASA-CASE-NPO-17184-1-CU	c 32	N88-26541 *
NASA-CASE-NPO-15161-1	c 33	N84-16456 *	NASA-CASE-NPO-15960-1	c 37	N86-19604 *	NASA-CASE-NPO-17185-1-CU	c 62	N91-14772 *
NASA-CASE-NPO-15179-1	c 44	N82-26777 *	NASA-CASE-NPO-15980-1	c 36	N85-30305 *	NASA-CASE-NPO-17196-1-CU	c 32	N88-29076 *
NASA-CASE-NPO-15183-1	c 44	N82-26776 *	NASA-CASE-NPO-15982-1	c 60	N87-21591 *	NASA-CASE-NPO-17197-1-CU	c 62	N91-25693 *
NASA-CASE-NPO-15197-1	c 52	N83-25346 *	NASA-CASE-NPO-16000-1	c 36	N85-29264 *	NASA-CASE-NPO-17203-1-CU	c 34	N90-23700 *
NASA-CASE-NPO-15201-1	c 36	N83-35350 *	NASA-CASE-NPO-16021-1	c 33	N85-30187 *	NASA-CASE-NPO-17204-1-CU	c 34	N91-25380 *
NASA-CASE-NPO-15202-1	c 27	N83-34043 *	NASA-CASE-NPO-16022-1	c 71	N85-22105 *	NASA-CASE-NPO-17205-1-CU	c 60	N90-21525 *
NASA-CASE-NPO-15210-1	c 25	N84-22709 *	NASA-CASE-NPO-16027-1	c 35	N85-21597 *	NASA-CASE-NPO-17207-1-CU	c 74	N88-25304 *
NASA-CASE-NPO-15213-1	c 51	N83-17045 *	NASA-CASE-NPO-16030-1	c 36	N84-25037 *	NASA-CASE-NPO-17233-1-CU	c 33	N88-29095 *
NASA-CASE-NPO-15220-1	c 45	N83-25217 *	NASA-CASE-NPO-16038-1	c 37	N86-19605 *	NASA-CASE-NPO-17235-1-CU	c 35	N90-21358 *
NASA-CASE-NPO-15227-1	c 37	N81-33482 *	NASA-CASE-NPO-16045-1	c 76	N87-13313 *	NASA-CASE-NPO-17241-1-CU	c 33	N90-23636 *
NASA-CASE-NPO-15251-1	c 31	N83-31897 *	NASA-CASE-NPO-16061-1-CU	c 72	N87-21660 *	NASA-CASE-NPO-17249-1-CU	c 32	N89-28676 *
NASA-CASE-NPO-15264-1	c 04	N84-27713 *	NASA-CASE-NPO-16103-1	c 27	N85-29043 *	NASA-CASE-NPO-17258-1-CU	c 33	N91-14551 *
NASA-CASE-NPO-15269-1	c 44	N82-29710 *	NASA-CASE-NPO-16112-1	c 33	N86-19516 *	NASA-CASE-NPO-17259-1-CU	c 76	N90-19884 *
NASA-CASE-NPO-15292-1	c 35	N83-27184 *	NASA-CASE-NPO-16116-2	c 60	N88-29310 *	NASA-CASE-NPO-17275-1-CU	c 37	N89-29750 *
NASA-CASE-NPO-15295-1	c 60	N85-21992 *	NASA-CASE-NPO-16135-1	c 25	N83-24572 *	NASA-CASE-NPO-17278-1-CU	c 31	N90-21215 *
NASA-CASE-NPO-15304-1	c 25	N83-31743 *	NASA-CASE-NPO-16142-1-CU	c 35	N86-20752 *	NASA-CASE-NPO-17280-1-CU	c 17	N90-21061 *
NASA-CASE-NPO-15334-1	c 71	N83-35781 *	NASA-CASE-NPO-16147-1-CU	c 71	N85-29693 *	NASA-CASE-NPO-17282-1-CU	c 36	N91-15528 *
NASA-CASE-NPO-15341-1	c 35	N84-33769 *	NASA-CASE-NPO-16155-1	c 44	N85-30475 *	NASA-CASE-NPO-17291-1-CU	c 34	N88-23946 *
NASA-CASE-NPO-15342-1	c 60	N83-32342 *	NASA-CASE-NPO-16171-1-CU	c 04	N86-27270 *	NASA-CASE-NPO-17301-1-CU	c 31	N90-23587 *
NASA-CASE-NPO-15345-1	c 74	N84-23247 *	NASA-CASE-NPO-16203-1	c 23	N85-35227 *	NASA-CASE-NPO-17310-1-CU	c 17	N88-28946 *
NASA-CASE-NPO-15351-1	c 06	N83-10040 *	NASA-CASE-NPO-16233-1	c 37	N86-20801 *	NASA-CASE-NPO-17325-1-CU	c 32	N90-17005 *
NASA-CASE-NPO-15351-2	c 06	N84-34443 *	NASA-CASE-NPO-16236-1	c 44	N86-27706 *	NASA-CASE-NPO-17334-1-CU	c 31	N88-23917 *
NASA-CASE-NPO-15358-1	c 33	N83-27126 *	NASA-CASE-NPO-16256-1	c 32	N87-21207 *	NASA-CASE-NPO-17354-1-CU	c 37	N90-17153 *
NASA-CASE-NPO-15375-1	c 74	N84-11921 *	NASA-CASE-NPO-16257-1	c 31	N85-29082 *	NASA-CASE-NPO-17355-1-CU	c 36	N91-17360 *
NASA-CASE-NPO-15388-1	c 44	N84-28203 *	NASA-CASE-NPO-16271-1	c 35	N86-25753 *	NASA-CASE-NPO-17390-1-CU	c 35	N90-22769 *
NASA-CASE-NPO-15398-1	c 35	N84-22931 *	NASA-CASE-NPO-16299-1	c 33	N87-14594 *	NASA-CASE-NPO-17393-1-CU	c 33	N89-29679 *
NASA-CASE-NPO-15400-1	c 34	N83-31993 *	NASA-CASE-NPO-16306-1-CU	c 76	N91-15898 *	NASA-CASE-NPO-17394-1-CU	c 60	N91-31810 *
NASA-CASE-NPO-15401-1	c 32	N83-27085 *	NASA-CASE-NPO-16321-1-CU	c 37	N87-17034 *	NASA-CASE-NPO-17399-1-CU	c 76	N89-14120 *
NASA-CASE-NPO-15419-2	c 44	N85-30474 *	NASA-CASE-NPO-16337-1-CU	c 33	N87-22894 *	NASA-CASE-NPO-17401-1-CU	c 63	N91-31885 *
NASA-CASE-NPO-15423-1	c 35	N84-28016 *	NASA-CASE-NPO-16372-1	c 72	N86-33127 *	NASA-CASE-NPO-17426-1-CU	c 33	N91-21434 *
NASA-CASE-NPO-15426-1	c 35	N84-17555 *	NASA-CASE-NPO-16392-1	c 25	N86-25428 *	NASA-CASE-NPO-17430-1-CU	c 33	N90-21951 *
NASA-CASE-NPO-15430-1	c 46	N85-21846 *	NASA-CASE-NPO-16393-1-CU	c 31	N87-21159 *	NASA-CASE-NPO-17436-1-CU	c 35	N91-15512 *

REPORT NUMBER INDEX

NASA-CASE-XGS-02401

NASA-CASE-NPO-17461-1-CU	c 35	N91-17350 *	NASA-CASE-NPO-18243-1-CU	c 36	N91-32489 *	NASA-CASE-XER-07895	c 26	N72-25679 *
NASA-CASE-NPO-17479-1-CU	c 34	N91-13858 *	NASA-CASE-NPO-18278-1-CU	c 74	N91-32925 *	NASA-CASE-XER-07896-2	c 23	N72-22673 *
NASA-CASE-NPO-17480-1-CU	c 25	N92-10073 *	NASA-CASE-NPO-18317-1-CU	c 74	N91-32926 *	NASA-CASE-XER-08476-1	c 26	N72-17820 *
NASA-CASE-NPO-17498-1-CU	c 72	N91-14813 *	NASA-CASE-NPO-18366-1-CU	c 31	N92-17674 *	NASA-CASE-XER-09213	c 07	N71-12390 *
NASA-CASE-NPO-17511-1-CU	c 71	N91-14807 *	NASA-CASE-NPO-18379-1-CU	c 74	N92-17675 *	NASA-CASE-XER-09519	c 14	N71-18483 *
NASA-CASE-NPO-17512-1-CU	c 74	N91-26918 *	NASA-CASE-NPO-18386-1-CU	c 36	N92-17899 *	NASA-CASE-XER-09521	c 09	N72-12136 *
NASA-CASE-NPO-17524-1-CU	c 27	N90-10261 *	NASA-CASE-NPO-18454-1-CU	c 33	N92-17865 *	NASA-CASE-XER-11019	c 09	N71-23598 *
NASA-CASE-NPO-17525-1-CU	c 60	N90-25583 *	NASA-CASE-NPO-18593-1-CU	c 74	N92-17864 *	NASA-CASE-XER-11046-2	c 33	N74-22864 *
NASA-CASE-NPO-17526-1-CU	c 35	N91-14588 *				NASA-CASE-XER-11046	c 09	N72-22203 *
NASA-CASE-NPO-17548-1-CU	c 32	N90-16104 *	NASA-CASE-NST-00007-1	c 45	N91-14662 *	NASA-CASE-XER-11203	c 14	N71-28994 *
NASA-CASE-NPO-17564-1-CU	c 32	N90-16974 *						
NASA-CASE-NPO-17564-1-CU	c 32	N92-22033 *	NASA-CASE-NSTL-10	c 45	N84-12654 *	NASA-CASE-XFR-00181	c 21	N70-33279 *
NASA-CASE-NPO-17569-1-CU	c 31	N92-15203 *				NASA-CASE-XFR-00756	c 02	N71-13421 *
NASA-CASE-NPO-17573-2-CU	c 33	N92-16196 *	NASA-CASE-NUC-10107-1	c 33	N74-17930 *	NASA-CASE-XFR-00811	c 15	N70-36901 *
NASA-CASE-NPO-17596-1-CU	c 35	N89-28795 *				NASA-CASE-XFR-00929	c 31	N70-34966 *
NASA-CASE-NPO-17604-1-CU	c 33	N91-14536 *	NASA-CASE-SSC-00004-1	c 37	N91-14609 *	NASA-CASE-XFR-02007	c 12	N71-24692 *
NASA-CASE-NPO-17612-1-CU	c 74	N92-16808 *	NASA-CASE-SSC-00006-1	c 35	N91-13691 *	NASA-CASE-XFR-03107	c 09	N71-19449 *
NASA-CASE-NPO-17620-1-CU	c 71	N91-14808 *	NASA-CASE-SSC-00008-1	c 37	N91-13733 *	NASA-CASE-XFR-03802	c 33	N71-23085 *
NASA-CASE-NPO-17621-1-CU	c 33	N90-17010 *	NASA-CASE-SSC-00010-1	c 82	N91-23976 *	NASA-CASE-XFR-04104	c 03	N70-42073 *
NASA-CASE-NPO-17625-1-CU	c 34	N90-27070 *	NASA-CASE-SSC-00013-1	c 38	N91-32515 *	NASA-CASE-XFR-04147	c 11	N71-10748 *
NASA-CASE-NPO-17625-1-CU	c 34	N92-21724 *				NASA-CASE-XFR-05302	c 15	N71-23254 *
NASA-CASE-NPO-17628-1-CU	c 32	N89-28684 *	NASA-CASE-WLP-10002	c 15	N72-17451 *	NASA-CASE-XFR-05421	c 15	N71-22994 *
NASA-CASE-NPO-17628-1-CU	c 32	N92-21712 *	NASA-CASE-WLP-10055-1	c 35	N84-28015 *	NASA-CASE-XFR-05637	c 09	N71-19480 *
NASA-CASE-NPO-17629-1-CU	c 60	N90-27268 *	NASA-CASE-WLP-10055-2	c 35	N85-21598 *	NASA-CASE-XFR-07172	c 05	N71-27234 *
NASA-CASE-NPO-17630-1-CU	c 31	N89-29577 *				NASA-CASE-XFR-07658-1	c 05	N71-26293 *
NASA-CASE-NPO-17632-1-CU	c 60	N91-32805 *	NASA-CASE-WOO-00428-1	c 32	N79-19186 *	NASA-CASE-XFR-08403	c 05	N71-11202 *
NASA-CASE-NPO-17633-1-CU	c 27	N91-27372 *	NASA-CASE-WOO-00625	c 37	N78-17385 *	NASA-CASE-XFR-09479	c 14	N69-27503 *
NASA-CASE-NPO-17640-1-CU	c 33	N91-14538 *				NASA-CASE-XFR-10856	c 05	N71-11189 *
NASA-CASE-NPO-17653-1-CU	c 51	N90-27239 *	NASA-CASE-XAC-00001	c 15	N71-28952 *	NASA-CASE-XGS-00131	c 09	N70-38995 *
NASA-CASE-NPO-17664-1-CU	c 62	N91-32852 *	NASA-CASE-XAC-00030	c 14	N70-34820 *	NASA-CASE-XGS-00174	c 08	N70-34743 *
NASA-CASE-NPO-17678-1-CU	c 76	N91-28014 *	NASA-CASE-XAC-00042	c 14	N70-34816 *	NASA-CASE-XGS-00260	c 31	N70-37924 *
NASA-CASE-NPO-17684-1-CU	c 33	N92-22042 *	NASA-CASE-XAC-00048	c 02	N71-29128 *	NASA-CASE-XGS-00359	c 14	N70-34158 *
NASA-CASE-NPO-17703-1-CU	c 74	N91-27957 *	NASA-CASE-XAC-00060	c 09	N70-39915 *	NASA-CASE-XGS-00373	c 23	N71-15978 *
NASA-CASE-NPO-17716-1-CU	c 62	N92-15620 *	NASA-CASE-XAC-00073	c 14	N70-34813 *	NASA-CASE-XGS-00381	c 09	N70-34819 *
NASA-CASE-NPO-17723-1-CU	c 76	N90-26685 *	NASA-CASE-XAC-00074	c 15	N70-34817 *	NASA-CASE-XGS-00458	c 09	N70-38604 *
NASA-CASE-NPO-17724-1-CU	c 76	N90-27517 *	NASA-CASE-XAC-00086	c 09	N70-33182 *	NASA-CASE-XGS-00466	c 21	N70-34297 *
NASA-CASE-NPO-17724-1-CU	c 76	N92-22035 *	NASA-CASE-XAC-00139	c 02	N70-34856 *	NASA-CASE-XGS-00473	c 03	N70-38713 *
NASA-CASE-NPO-17734-1-CU	c 33	N92-10146 *	NASA-CASE-XAC-00319	c 25	N70-41628 *	NASA-CASE-XGS-00587	c 15	N70-35087 *
NASA-CASE-NPO-17736-2-CU	c 24	N92-18561 *	NASA-CASE-XAC-00399	c 11	N70-34815 *	NASA-CASE-XGS-00619	c 30	N70-40016 *
NASA-CASE-NPO-17759-1-CU	c 32	N92-10125 *	NASA-CASE-XAC-00404	c 08	N70-40125 *	NASA-CASE-XGS-00689	c 08	N70-34787 *
NASA-CASE-NPO-17763-1-CU	c 36	N92-17862 *	NASA-CASE-XAC-00405	c 05	N70-41819 *	NASA-CASE-XGS-00740	c 07	N71-23098 *
NASA-CASE-NPO-17781-1-CU	c 60	N92-17884 *	NASA-CASE-XAC-00435	c 09	N70-35440 *	NASA-CASE-XGS-00769	c 14	N70-41647 *
NASA-CASE-NPO-17784-1-CU	c 74	N91-13998 *	NASA-CASE-XAC-00472	c 15	N70-40180 *	NASA-CASE-XGS-00783	c 30	N71-17788 *
NASA-CASE-NPO-17785-1-CU	c 37	N89-28846 *	NASA-CASE-XAC-00648	c 14	N70-40400 *	NASA-CASE-XGS-00809	c 21	N70-35427 *
NASA-CASE-NPO-17786-1-CU	c 35	N90-17104 *	NASA-CASE-XAC-00731	c 11	N71-15960 *	NASA-CASE-XGS-00823	c 10	N71-15910 *
NASA-CASE-NPO-17800-1-CU	c 37	N91-13724 *	NASA-CASE-XAC-00812	c 14	N71-15598 *	NASA-CASE-XGS-00824	c 15	N71-16078 *
NASA-CASE-NPO-17800-1-CU	c 37	N92-22036 *	NASA-CASE-XAC-00942	c 10	N71-16042 *	NASA-CASE-XGS-00829-1	c 44	N79-19447 *
NASA-CASE-NPO-17801-1-CU	c 37	N91-21544 *	NASA-CASE-XAC-01101	c 14	N70-41957 *	NASA-CASE-XGS-00886	c 03	N71-11053 *
NASA-CASE-NPO-17803-1-CU	c 62	N90-27385 *	NASA-CASE-XAC-01158	c 15	N71-23051 *	NASA-CASE-XGS-00938	c 32	N70-41367 *
NASA-CASE-NPO-17806-1-CU	c 31	N91-27385 *	NASA-CASE-XAC-01404	c 05	N70-41581 *	NASA-CASE-XGS-00963	c 15	N69-39735 *
NASA-CASE-NPO-17809-1-CU	c 33	N91-27478 *	NASA-CASE-XAC-01591	c 31	N71-17729 *	NASA-CASE-XGS-01013	c 14	N71-23725 *
NASA-CASE-NPO-17812-1-CU	c 76	N90-17456 *	NASA-CASE-XAC-01662	c 14	N71-23037 *	NASA-CASE-XGS-01021	c 08	N71-21042 *
NASA-CASE-NPO-17812-2-CU	c 76	N92-22040 *	NASA-CASE-XAC-01677	c 09	N71-20816 *	NASA-CASE-XGS-01022	c 07	N71-16088 *
NASA-CASE-NPO-17812-3-CU	c 76	N92-22041 *	NASA-CASE-XAC-02055	c 02	N71-16087 *	NASA-CASE-XGS-01023	c 14	N71-22992 *
NASA-CASE-NPO-17820-1-CU	c 04	N91-14321 *	NASA-CASE-XAC-02405	c 09	N71-16089 *	NASA-CASE-XGS-01036	c 14	N70-40003 *
NASA-CASE-NPO-17824-1-CU	c 36	N92-17132 *	NASA-CASE-XAC-02407	c 14	N69-27423 *	NASA-CASE-XGS-01052	c 14	N71-15992 *
NASA-CASE-NPO-17826-1-CU	c 27	N92-16121 *	NASA-CASE-XAC-02807	c 09	N71-23021 *	NASA-CASE-XGS-01110	c 07	N69-24334 *
NASA-CASE-NPO-17830-1-CU	c 33	N91-14539 *	NASA-CASE-XAC-02877	c 14	N70-41681 *	NASA-CASE-XGS-01118	c 10	N71-23662 *
NASA-CASE-NPO-17831-1-CU	c 43	N91-14642 *	NASA-CASE-XAC-02970	c 14	N69-39896 *	NASA-CASE-XGS-01143	c 31	N71-15647 *
NASA-CASE-NPO-17835-1-CU	c 76	N90-27518 *	NASA-CASE-XAC-02981	c 14	N71-21072 *	NASA-CASE-XGS-01155	c 10	N71-21483 *
NASA-CASE-NPO-17836-1-CU	c 32	N92-10126 *	NASA-CASE-XAC-03107	c 23	N71-16098 *	NASA-CASE-XGS-01159	c 21	N71-10678 *
NASA-CASE-NPO-17845-1-CU	c 61	N90-27341 *	NASA-CASE-XAC-03392	c 03	N70-41954 *	NASA-CASE-XGS-01222	c 10	N71-20841 *
NASA-CASE-NPO-17852-1-CU	c 63	N91-23783 *	NASA-CASE-XAC-03740	c 14	N71-26135 *	NASA-CASE-XGS-01223	c 07	N71-10609 *
NASA-CASE-NPO-17853-1-CU	c 32	N91-25318 *	NASA-CASE-XAC-03777	c 10	N71-15909 *	NASA-CASE-XGS-01230	c 08	N71-19544 *
NASA-CASE-NPO-17858-1-CU	c 24	N90-26880 *	NASA-CASE-XAC-04030	c 10	N71-19472 *	NASA-CASE-XGS-01231	c 14	N70-41676 *
NASA-CASE-NPO-17896-1-CU	c 32	N91-27439 *	NASA-CASE-XAC-04031	c 08	N71-18594 *	NASA-CASE-XGS-01245-1	c 35	N79-33449 *
NASA-CASE-NPO-17897-1-CU	c 33	N90-27040 *	NASA-CASE-XAC-04458	c 14	N71-24232 *	NASA-CASE-XGS-01286-1	c 37	N79-33469 *
NASA-CASE-NPO-17904-1-CU	c 32	N91-13594 *	NASA-CASE-XAC-04885	c 14	N71-20439 *	NASA-CASE-XGS-01293-1	c 35	N79-33450 *
NASA-CASE-NPO-17911-1-CU	c 32	N90-27016 *	NASA-CASE-XAC-04886-1	c 14	N71-20439 *	NASA-CASE-XGS-01331	c 14	N71-22996 *
NASA-CASE-NPO-17913-1-CU	c 74	N90-27488 *	NASA-CASE-XAC-05333	c 11	N71-22875 *	NASA-CASE-XGS-01395	c 03	N69-21539 *
NASA-CASE-NPO-17913-1-CU	c 74	N92-22034 *	NASA-CASE-XAC-05422	c 04	N71-23185 *	NASA-CASE-XGS-01418	c 09	N71-23573 *
NASA-CASE-NPO-17914-1-CU	c 39	N91-13767 *	NASA-CASE-XAC-05462-2	c 10	N72-17171 *	NASA-CASE-XGS-01419	c 03	N70-41864 *
NASA-CASE-NPO-17918-2-CU	c 63	N92-17895 *	NASA-CASE-XAC-05506-1	c 24	N71-16095 *	NASA-CASE-XGS-01451	c 09	N71-10677 *
NASA-CASE-NPO-17922-1-CU	c 33	N91-13621 *	NASA-CASE-XAC-05632	c 32	N71-23971 *	NASA-CASE-XGS-01473	c 09	N71-10673 *
NASA-CASE-NPO-17937-1-CU	c 43	N91-21621 *	NASA-CASE-XAC-05695	c 25	N71-16073 *	NASA-CASE-XGS-01475	c 03	N71-11058 *
NASA-CASE-NPO-17939-1-CU	c 60	N90-26518 *	NASA-CASE-XAC-05706	c 05	N71-12342 *	NASA-CASE-XGS-01504	c 16	N70-41578 *
NASA-CASE-NPO-17941-1-CU	c 32	N91-13595 *	NASA-CASE-XAC-05902	c 11	N71-18578 *	NASA-CASE-XGS-01513	c 03	N71-23336 *
NASA-CASE-NPO-17949-1-CU	c 76	N92-10681 *	NASA-CASE-XAC-06029-1	c 31	N71-24813 *	NASA-CASE-XGS-01537	c 07	N71-23405 *
NASA-CASE-NPO-17954-1-CU	c 60	N90-26519 *	NASA-CASE-XAC-06302	c 08	N71-19763 *	NASA-CASE-XGS-01587	c 14	N71-15962 *
NASA-CASE-NPO-17970-1-CU	c 43	N90-26384 *	NASA-CASE-XAC-06956	c 15	N71-21177 *	NASA-CASE-XGS-01590	c 07	N71-12392 *
NASA-CASE-NPO-17994-1-CU	c 33	N92-17907 *	NASA-CASE-XAC-07043	c 05	N71-23161 *	NASA-CASE-XGS-01593	c 03	N70-35408 *
NASA-CASE-NPO-17997-1-CU	c 60	N91-13888 *	NASA-CASE-XAC-08494	c 30	N71-15990 *	NASA-CASE-XGS-01654	c 31	N71-24750 *
NASA-CASE-NPO-17998-1-CU	c 60	N92-12438 *	NASA-CASE-XAC-08972	c 02	N71-20570 *	NASA-CASE-XGS-01674	c 03	N71-29129 *
NASA-CASE-NPO-18007-1-CU	c 74	N92-11791 *	NASA-CASE-XAC-08981	c 09	N69-39897 *	NASA-CASE-XGS-01725	c 14	N69-39982 *
NASA-CASE-NPO-18028-1-CU	c 74	N92-16809 *	NASA-CASE-XAC-09489-1	c 15	N71-26673 *	NASA-CASE-XGS-01784	c 10	N71-20782 *
NASA-CASE-NPO-18034-1-CU	c 44	N92-16457 *	NASA-CASE-XAC-10019	c 15	N71-23809 *	NASA-CASE-XGS-01812	c 07	N71-23001 *
NASA-CASE-NPO-18075-1-CU	c 33	N91-13622 *	NASA-CASE-XAC-10607	c 10	N71-23669 *	NASA-CASE-XGS-01881	c 09	N70-40123 *
NASA-CASE-NPO-18095-1-CU	c 74	N91-32923 *	NASA-CASE-XAC-10608-1	c 09	N71-12517 *	NASA-CASE-XGS-01971	c 15	N71-15922 *
NASA-CASE-NPO-18098-1-CU	c 74	N91-23890 *	NASA-CASE-XAC-10768	c 09	N71-18830 *	NASA-CASE-XGS-01983	c 10	N70-41964 *
NASA-CASE-NPO-18101-1-CU	c 74	N91-25841 *	NASA-CASE-XAC-10770-1	c 16	N71-24828 *	NASA-CASE-XGS-02011	c 15	N71-20739 *
NASA-CASE-NPO-18115-1-CU	c 47	N91-23662 *	NASA-CASE-XAC-11225	c 14	N69-27486 *	NASA-CASE-XGS-02171	c 09	N69-24324 *
NASA-CASE-NPO-18116-1-CU	c 37	N91-32509 *				NASA-CASE-XGS-02290	c 07	N71-28809 *
NASA-CASE-NPO-18134-1-CU	c 37	N91-32510 *	NASA-CASE-XAR-01547	c 05	N69-21473 *	NASA-CASE-XGS-02317	c 09	N71-23525 *
NASA-CASE-NPO-18146-1-CU	c 74	N92-17892 *	NASA-CASE-XAR-03786	c 09	N69-21313 *	NASA-CASE-XGS-02319	c 14	N71-22965 *
NASA-CASE-NPO-18155-1-CU	c 71	N92-10609 *				NASA-CASE-XGS-02401	c 14	N69-27485 *
NASA-CASE-NPO-18194-1-CU	c 74	N91-32924 *	NASA-CASE-XER-07894	c 09	N71-18721 *			

NASA-CASE-XGS-02422	c 15	N71-21529 *	NASA-CASE-XGS-08718	c 15	N71-24600 *	NASA-CASE-XLA-00679	c 15	N70-38601 *
NASA-CASE-XGS-02435	c 18	N71-22998 *	NASA-CASE-XGS-08729	c 28	N71-14044 *	NASA-CASE-XLA-00686	c 31	N70-34135 *
NASA-CASE-XGS-02437	c 15	N69-21472 * #	NASA-CASE-XGS-09186	c 33	N78-17295 *	NASA-CASE-XLA-00711	c 03	N71-12258 *
NASA-CASE-XGS-02439	c 14	N71-19431 *	NASA-CASE-XGS-09190	c 31	N71-16102 *	NASA-CASE-XLA-00754	c 05	N70-34850 *
NASA-CASE-XGS-02440	c 08	N71-19432 *	NASA-CASE-XGS-10010	c 03	N72-15986 *	NASA-CASE-XLA-00755	c 01	N71-13410 *
NASA-CASE-XGS-02441	c 15	N70-41629 *	NASA-CASE-XGS-10518	c 16	N71-28554 *	NASA-CASE-XLA-00781	c 09	N71-22999 *
NASA-CASE-XGS-02554	c 31	N71-21064 *	NASA-CASE-XGS-11177	c 09	N71-27001 *	NASA-CASE-XLA-00791	c 03	N70-39930 *
NASA-CASE-XGS-02607	c 31	N71-23009 *				NASA-CASE-XLA-00793	c 21	N71-22880 *
NASA-CASE-XGS-02608	c 07	N70-41678 *	NASA-CASE-XHQ-01208	c 15	N70-35409 *	NASA-CASE-XLA-00805	c 31	N70-38010 *
NASA-CASE-XGS-02610	c 14	N71-23174 *	NASA-CASE-XHQ-01897	c 28	N70-35381 *	NASA-CASE-XLA-00806	c 02	N70-34858 *
NASA-CASE-XGS-02612	c 08	N71-19435 *	NASA-CASE-XHQ-02146	c 18	N75-27040 *	NASA-CASE-XLA-00838	c 03	N70-36778 *
NASA-CASE-XGS-02629	c 14	N71-21082 *	NASA-CASE-XHQ-03673	c 33	N71-29046 *	NASA-CASE-XLA-00892	c 33	N71-17897 *
NASA-CASE-XGS-02630	c 03	N71-22974 *	NASA-CASE-XHQ-03903	c 15	N69-21922 * #	NASA-CASE-XLA-00898	c 02	N70-36804 *
NASA-CASE-XGS-02631	c 03	N71-23006 *	NASA-CASE-XHQ-04106	c 14	N70-40240 *	NASA-CASE-XLA-00901	c 07	N71-10775 *
NASA-CASE-XGS-02749	c 07	N69-39978 * #				NASA-CASE-XLA-00934	c 14	N71-22765 *
NASA-CASE-XGS-02751	c 09	N71-23015 *	NASA-CASE-XKS-01985	c 15	N71-10782 *	NASA-CASE-XLA-00936	c 14	N71-14996 *
NASA-CASE-XGS-02812	c 09	N71-19466 *	NASA-CASE-XKS-02342	c 05	N71-11199 *	NASA-CASE-XLA-00937	c 31	N71-17691 *
NASA-CASE-XGS-02816	c 07	N69-24323 * #	NASA-CASE-XKS-02582	c 15	N71-21234 *	NASA-CASE-XLA-00939	c 11	N71-15926 *
NASA-CASE-XGS-02884	c 15	N71-22705 *	NASA-CASE-XKS-03338	c 15	N71-24043 *	NASA-CASE-XLA-00941	c 14	N71-23240 *
NASA-CASE-XGS-02889	c 07	N71-11282 *	NASA-CASE-XKS-03381	c 09	N71-22796 *	NASA-CASE-XLA-01019	c 15	N70-40156 *
NASA-CASE-XGS-03058	c 10	N71-19547 *	NASA-CASE-XKS-03495	c 14	N69-39785 * #	NASA-CASE-XLA-01027	c 31	N71-24035 *
NASA-CASE-XGS-03095	c 09	N69-27463 * #	NASA-CASE-XKS-03509	c 14	N71-23175 *	NASA-CASE-XLA-01043	c 28	N71-10780 *
NASA-CASE-XGS-03120	c 15	N71-24047 *	NASA-CASE-XKS-04614	c 15	N69-21460 * #	NASA-CASE-XLA-01090	c 07	N71-12389 *
NASA-CASE-XGS-03230	c 14	N71-23401 *	NASA-CASE-XKS-04631	c 10	N71-23663 *	NASA-CASE-XLA-01091	c 15	N71-10672 *
NASA-CASE-XGS-03303	c 08	N71-18595 *	NASA-CASE-XKS-05932	c 09	N71-26787 *	NASA-CASE-XLA-01127	c 07	N70-41372 *
NASA-CASE-XGS-03304	c 09	N71-22988 *	NASA-CASE-XKS-06187	c 08	N71-24890 *	NASA-CASE-XLA-01131	c 14	N71-10774 *
NASA-CASE-XGS-03351	c 31	N71-16081 *	NASA-CASE-XKS-06250	c 14	N71-15600 *	NASA-CASE-XLA-01141	c 15	N71-13789 *
NASA-CASE-XGS-03390	c 03	N71-23187 *	NASA-CASE-XKS-07814	c 15	N71-27067 *	NASA-CASE-XLA-01163	c 21	N71-15582 *
NASA-CASE-XGS-03427	c 10	N71-23029 *	NASA-CASE-XKS-07953	c 15	N71-26134 *	NASA-CASE-XLA-01219	c 10	N71-23084 *
NASA-CASE-XGS-03429	c 03	N69-21330 * #	NASA-CASE-XKS-08012-2	c 31	N71-15566 *	NASA-CASE-XLA-01220	c 02	N70-41863 *
NASA-CASE-XGS-03431	c 21	N71-15642 *	NASA-CASE-XKS-08485	c 07	N71-19493 *	NASA-CASE-XLA-01243	c 33	N71-22792 *
NASA-CASE-XGS-03501	c 09	N71-20864 *	NASA-CASE-XKS-09340	c 07	N71-24614 *	NASA-CASE-XLA-01262	c 15	N71-21404 *
NASA-CASE-XGS-03502	c 10	N71-20852 *	NASA-CASE-XKS-09348	c 09	N71-13521 *	NASA-CASE-XLA-01288	c 09	N69-21470 * #
NASA-CASE-XGS-03505	c 03	N71-10608 *	NASA-CASE-XKS-10543	c 07	N71-26292 *	NASA-CASE-XLA-01290	c 02	N70-42016 *
NASA-CASE-XGS-03532	c 14	N71-17627 *	NASA-CASE-XKS-10804	c 05	N71-24606 *	NASA-CASE-XLA-01291	c 33	N70-36617 *
NASA-CASE-XGS-03556	c 27	N70-35534 *				NASA-CASE-XLA-01326	c 11	N71-21481 *
NASA-CASE-XGS-03632	c 09	N71-23311 *	NASA-CASE-XLA-00013	c 15	N71-29136 *	NASA-CASE-XLA-01332	c 31	N71-15664 *
NASA-CASE-XGS-03644	c 16	N71-18614 *	NASA-CASE-XLA-00062	c 14	N70-33254 *	NASA-CASE-XLA-01339	c 31	N71-15692 *
NASA-CASE-XGS-03736	c 14	N72-22443 *	NASA-CASE-XLA-00087	c 02	N70-33332 *	NASA-CASE-XLA-01349	c 20	N71-17143 *
NASA-CASE-XGS-03864	c 15	N69-24320 * #	NASA-CASE-XLA-00100	c 14	N70-36807 *	NASA-CASE-XLA-01353	c 14	N70-41366 *
NASA-CASE-XGS-03865	c 14	N69-21363 * #	NASA-CASE-XLA-00105	c 28	N70-33331 *	NASA-CASE-XLA-01354	c 25	N70-36946 *
NASA-CASE-XGS-04047-2	c 03	N72-11062 *	NASA-CASE-XLA-00112	c 11	N70-33287 *	NASA-CASE-XLA-01396	c 03	N71-12259 *
NASA-CASE-XGS-04119	c 18	N69-39979 * #	NASA-CASE-XLA-00113	c 14	N70-33386 *	NASA-CASE-XLA-01400	c 07	N70-41331 *
NASA-CASE-XGS-04173	c 19	N71-26674 *	NASA-CASE-XLA-00115	c 03	N70-33343 *	NASA-CASE-XLA-01401	c 15	N71-21179 *
NASA-CASE-XGS-04175	c 15	N71-18579 *	NASA-CASE-XLA-00117	c 31	N71-17680 *	NASA-CASE-XLA-01441	c 15	N70-41679 *
NASA-CASE-XGS-04224	c 10	N71-26418 *	NASA-CASE-XLA-00118	c 05	N70-33285 *	NASA-CASE-XLA-01446	c 15	N71-21528 *
NASA-CASE-XGS-04227	c 15	N71-21744 *	NASA-CASE-XLA-00119	c 11	N70-33329 *	NASA-CASE-XLA-01486	c 01	N71-23497 *
NASA-CASE-XGS-04393	c 21	N71-14159 *	NASA-CASE-XLA-00120	c 21	N70-33181 *	NASA-CASE-XLA-01494	c 15	N71-24164 *
NASA-CASE-XGS-04478	c 14	N71-24233 *	NASA-CASE-XLA-00128	c 15	N70-37925 *	NASA-CASE-XLA-01530	c 14	N71-23092 *
NASA-CASE-XGS-04480	c 16	N69-27491 * #	NASA-CASE-XLA-00135	c 14	N70-33322 *	NASA-CASE-XLA-01551	c 14	N71-22989 *
NASA-CASE-XGS-04531	c 03	N69-24267 * #	NASA-CASE-XLA-00137	c 15	N70-33180 *	NASA-CASE-XLA-01552	c 07	N71-11284 *
NASA-CASE-XGS-04548	c 15	N71-24045 *	NASA-CASE-XLA-00138	c 31	N70-37981 *	NASA-CASE-XLA-01583	c 02	N70-36825 *
NASA-CASE-XGS-04554	c 15	N69-39786 * #	NASA-CASE-XLA-00141	c 09	N70-33312 *	NASA-CASE-XLA-01584	c 14	N71-23269 *
NASA-CASE-XGS-04765	c 08	N71-18693 *	NASA-CASE-XLA-00142	c 02	N70-33286 *	NASA-CASE-XLA-01731	c 32	N71-21045 *
NASA-CASE-XGS-04766	c 08	N71-18602 *	NASA-CASE-XLA-00147	c 25	N70-34661 *	NASA-CASE-XLA-01745	c 33	N71-28903 *
NASA-CASE-XGS-04767	c 08	N71-12494 *	NASA-CASE-XLA-00149	c 31	N70-37938 *	NASA-CASE-XLA-01781	c 14	N69-39975 * #
NASA-CASE-XGS-04768	c 08	N71-19437 *	NASA-CASE-XLA-00154	c 28	N70-33374 *	NASA-CASE-XLA-01782	c 14	N71-26136 *
NASA-CASE-XGS-04799	c 18	N71-24183 *	NASA-CASE-XLA-00158	c 26	N70-36805 *	NASA-CASE-XLA-01787	c 11	N71-16028 *
NASA-CASE-XGS-04808	c 03	N69-25146 * #	NASA-CASE-XLA-00165	c 31	N70-33242 *	NASA-CASE-XLA-01791	c 14	N71-22991 *
NASA-CASE-XGS-04879	c 14	N71-20428 *	NASA-CASE-XLA-00166	c 02	N70-34178 *	NASA-CASE-XLA-01794	c 33	N71-21586 *
NASA-CASE-XGS-04987	c 08	N71-20571 *	NASA-CASE-XLA-00183	c 14	N70-40239 *	NASA-CASE-XLA-01804	c 02	N70-34160 *
NASA-CASE-XGS-04993	c 14	N71-17574 *	NASA-CASE-XLA-00188	c 15	N71-22874 *	NASA-CASE-XLA-01807	c 15	N71-10799 *
NASA-CASE-XGS-04994	c 09	N69-21543 * #	NASA-CASE-XLA-00189	c 33	N70-36846 *	NASA-CASE-XLA-01808	c 15	N71-20740 *
NASA-CASE-XGS-04999	c 09	N69-24317 * #	NASA-CASE-XLA-00195	c 02	N70-38009 *	NASA-CASE-XLA-01832	c 14	N71-21006 *
NASA-CASE-XGS-05003	c 09	N69-24318 * #	NASA-CASE-XLA-00203	c 14	N70-34161 *	NASA-CASE-XLA-01907	c 14	N71-23268 *
NASA-CASE-XGS-05180	c 18	N71-25881 *	NASA-CASE-XLA-00204	c 32	N70-36536 *	NASA-CASE-XLA-01926	c 14	N71-15620 *
NASA-CASE-XGS-05211	c 07	N69-39980 * #	NASA-CASE-XLA-00210	c 30	N70-40309 *	NASA-CASE-XLA-01952	c 08	N71-12507 *
NASA-CASE-XGS-05289	c 09	N71-19470 *	NASA-CASE-XLA-00221	c 02	N70-33266 *	NASA-CASE-XLA-01967	c 31	N70-42015 *
NASA-CASE-XGS-05290	c 09	N71-25999 *	NASA-CASE-XLA-00229	c 12	N70-33305 *	NASA-CASE-XLA-01987	c 23	N71-23976 *
NASA-CASE-XGS-05291	c 23	N71-16341 *	NASA-CASE-XLA-00230	c 02	N70-33255 *	NASA-CASE-XLA-01989	c 21	N70-34295 *
NASA-CASE-XGS-05432	c 03	N71-19438 *	NASA-CASE-XLA-00241	c 31	N70-37986 *	NASA-CASE-XLA-01995	c 18	N71-23047 *
NASA-CASE-XGS-05434	c 03	N71-20491 *	NASA-CASE-XLA-00256	c 31	N71-15663 *	NASA-CASE-XLA-02050	c 31	N71-22968 *
NASA-CASE-XGS-05441	c 10	N71-22962 *	NASA-CASE-XLA-00258	c 31	N70-38676 *	NASA-CASE-XLA-02057	c 26	N70-40015 *
NASA-CASE-XGS-05532	c 06	N71-17705 *	NASA-CASE-XLA-00281	c 21	N70-36943 *	NASA-CASE-XLA-02059	c 33	N71-24276 *
NASA-CASE-XGS-05533	c 04	N69-27487 * #	NASA-CASE-XLA-00284	c 15	N71-16075 *	NASA-CASE-XLA-02079	c 12	N71-16894 *
NASA-CASE-XGS-05534	c 23	N71-16355 *	NASA-CASE-XLA-00302	c 15	N71-16077 *	NASA-CASE-XLA-02081	c 20	N71-16281 *
NASA-CASE-XGS-05579	c 31	N71-15676 *	NASA-CASE-XLA-00304	c 27	N70-34783 *	NASA-CASE-XLA-02131	c 32	N70-42003 *
NASA-CASE-XGS-05582	c 07	N69-27460 * #	NASA-CASE-XLA-00326	c 03	N70-34667 *	NASA-CASE-XLA-02132	c 31	N71-10582 *
NASA-CASE-XGS-05584-1	c 25	N82-29370 *	NASA-CASE-XLA-00327	c 25	N71-29184 *	NASA-CASE-XLA-02332	c 32	N71-17609 *
NASA-CASE-XGS-05680	c 14	N71-17585 *	NASA-CASE-XLA-00330	c 33	N70-34540 *	NASA-CASE-XLA-02551	c 21	N71-21708 *
NASA-CASE-XGS-05715	c 23	N71-16100 *	NASA-CASE-XLA-00349	c 33	N70-37979 *	NASA-CASE-XLA-02605	c 14	N71-10773 *
NASA-CASE-XGS-05718	c 26	N71-16037 *	NASA-CASE-XLA-00350	c 02	N70-38011 *	NASA-CASE-XLA-02609	c 09	N72-25256 *
NASA-CASE-XGS-05918	c 07	N69-39974 * #	NASA-CASE-XLA-00377	c 33	N71-17610 *	NASA-CASE-XLA-02619	c 10	N71-26334 *
NASA-CASE-XGS-06226	c 10	N71-25950 *	NASA-CASE-XLA-00378	c 11	N71-15925 *	NASA-CASE-XLA-02651	c 28	N70-41967 * #
NASA-CASE-XGS-06306	c 17	N71-16044 *	NASA-CASE-XLA-00414	c 07	N70-38200 *	NASA-CASE-XLA-02704	c 11	N69-21540 * #
NASA-CASE-XGS-06628	c 24	N71-16213 *	NASA-CASE-XLA-00415	c 15	N71-16079 *	NASA-CASE-XLA-02705	c 08	N71-15908 *
NASA-CASE-XGS-07375-1	c 25	N82-29370 *	NASA-CASE-XLA-00471	c 08	N70-34778 *	NASA-CASE-XLA-02758	c 14	N71-18481 *
NASA-CASE-XGS-07397-1	c 25	N82-29370 *	NASA-CASE-XLA-00481	c 14	N70-36824 *	NASA-CASE-XLA-02809	c 15	N71-22982 *
NASA-CASE-XGS-07514	c 23	N71-16099 *	NASA-CASE-XLA-00482	c 15	N70-36409 *	NASA-CASE-XLA-02810	c 14	N71-25901 *
NASA-CASE-XGS-07752	c 14	N73-30390 *	NASA-CASE-XLA-00487	c 14	N70-40157 *	NASA-CASE-XLA-02850	c 09	N71-20447 *
NASA-CASE-XGS-07801	c 09	N71-12513 *	NASA-CASE-XLA-00492	c 14	N70-34799 *	NASA-CASE-XLA-02854	c 15	N69-27490 * #
NASA-CASE-XGS-07805	c 15	N72-33476 *	NASA-CASE-XLA-00493	c 11	N70-34786 *	NASA-CASE-XLA-02865	c 28	N71-15563 *
NASA-CASE-XGS-08259	c 14	N71-23698 *	NASA-CASE-XLA-00495	c 14	N70-41332 *	NASA-CASE-XLA-02898	c 05	N71-20268 *
NASA-CASE-XGS-08266	c 14	N69-27432 * #	NASA-CASE-XLA-00670	c 08	N71-12501 *	NASA-CASE-XLA-03076	c 07	N71-11266 *
NASA-CASE-XGS-08269	c 23	N71-26206 *	NASA-CASE-XLA-00675	c 25	N70-33267 *	NASA-CASE-XLA-03102	c 14	N71-21079 *
NASA-CASE-XGS-08679	c 10	N71-21473 *	NASA-CASE-XLA-00678	c 31	N70-34296 *	NASA-CASE-XLA-03103	c 25	N71-21693 *

REPORT NUMBER INDEX

NASA-CASE-XLE-10453-2

NASA-CASE-XLA-03104	c 06	N71-11235 *	NASA-CASE-XLA-10322	c 15	N72-17452 *	NASA-CASE-XLE-01609	c 14	N71-10500 *
NASA-CASE-XLA-03105	c 15	N69-27483 *	NASA-CASE-XLA-10402	c 14	N71-29041 *	NASA-CASE-XLE-01640	c 31	N71-15637 *
NASA-CASE-XLA-03114	c 09	N71-22888 *	NASA-CASE-XLA-10450	c 28	N71-21493 *	NASA-CASE-XLE-01645	c 03	N71-20904 *
NASA-CASE-XLA-03127	c 11	N71-10776 *	NASA-CASE-XLA-10470	c 15	N72-21489 *	NASA-CASE-XLE-01716	c 09	N70-40234 *
NASA-CASE-XLA-03132	c 31	N71-22969 *	NASA-CASE-XLA-10772	c 07	N71-28980 *	NASA-CASE-XLE-01765	c 18	N71-10772 *
NASA-CASE-XLA-03135	c 32	N71-16428 *	NASA-CASE-XLA-11028-1	c 24	N74-27035 *	NASA-CASE-XLE-01783	c 28	N70-34175 *
NASA-CASE-XLA-03213	c 05	N71-11207 *	NASA-CASE-XLA-11154	c 07	N72-21117 *	NASA-CASE-XLE-01902	c 28	N71-10574 *
NASA-CASE-XLA-03271	c 11	N69-24321 *	NASA-CASE-XLA-11189	c 10	N72-20222 *	NASA-CASE-XLE-01903	c 22	N71-23599 *
NASA-CASE-XLA-03273	c 14	N71-18699 *				NASA-CASE-XLE-01988	c 27	N71-15634 *
NASA-CASE-XLA-03356	c 10	N71-23315 *	NASA-CASE-XLE-00005	c 28	N70-39899 *	NASA-CASE-XLE-01997	c 06	N71-23527 *
NASA-CASE-XLA-03374	c 25	N71-15562 *	NASA-CASE-XLE-00010	c 15	N70-33382 *	NASA-CASE-XLE-02008	c 09	N71-21583 *
NASA-CASE-XLA-03375	c 16	N71-24074 *	NASA-CASE-XLE-00011	c 14	N70-41946 *	NASA-CASE-XLE-02024	c 14	N71-22964 *
NASA-CASE-XLA-03410	c 16	N71-25914 *	NASA-CASE-XLE-00020	c 15	N70-33226 *	NASA-CASE-XLE-02038	c 09	N71-16086 *
NASA-CASE-XLA-03492	c 15	N71-22713 *	NASA-CASE-XLE-00023	c 15	N70-33330 *	NASA-CASE-XLE-02062-1	c 20	N80-14188 *
NASA-CASE-XLA-03497	c 15	N71-23052 *	NASA-CASE-XLE-00027	c 33	N71-29152 *	NASA-CASE-XLE-02066	c 28	N71-15661 *
NASA-CASE-XLA-03538	c 15	N71-24897 *	NASA-CASE-XLE-00035	c 33	N71-29151 *	NASA-CASE-XLE-02082	c 17	N71-16026 *
NASA-CASE-XLA-03645	c 14	N71-20430 *	NASA-CASE-XLE-00037	c 28	N70-33372 *	NASA-CASE-XLE-02083	c 03	N69-39983 *
NASA-CASE-XLA-03659	c 02	N71-11041 *	NASA-CASE-XLE-00046	c 15	N70-33311 *	NASA-CASE-XLE-02367-1	c 31	N79-21225 *
NASA-CASE-XLA-03660	c 15	N71-21060 *	NASA-CASE-XLE-00057	c 28	N70-38711 *	NASA-CASE-XLE-02428	c 17	N70-33288 *
NASA-CASE-XLA-03661	c 15	N71-33518 *	NASA-CASE-XLE-00078	c 28	N70-33284 *	NASA-CASE-XLE-02531	c 05	N71-23080 *
NASA-CASE-XLA-03691	c 31	N71-15674 *	NASA-CASE-XLE-00085	c 28	N70-39895 *	NASA-CASE-XLE-02545-1	c 76	N79-21910 *
NASA-CASE-XLA-03724	c 14	N69-27461 *	NASA-CASE-XLE-00092	c 15	N70-33264 *	NASA-CASE-XLE-02578	c 25	N71-20747 *
NASA-CASE-XLA-03893	c 10	N71-27271 *	NASA-CASE-XLE-00101	c 15	N70-33376 *	NASA-CASE-XLE-02624	c 12	N69-39988 *
NASA-CASE-XLA-04063	c 31	N71-33160 *	NASA-CASE-XLE-00103	c 28	N70-33241 *	NASA-CASE-XLE-02647	c 18	N71-23658 *
NASA-CASE-XLA-04126	c 28	N71-26779 *	NASA-CASE-XLE-00106	c 15	N71-16076 *	NASA-CASE-XLE-02792	c 26	N71-10607 *
NASA-CASE-XLA-04143	c 15	N71-17687 *	NASA-CASE-XLE-00111	c 28	N70-38199 *	NASA-CASE-XLE-02798	c 26	N71-23654 *
NASA-CASE-XLA-04251	c 18	N71-26100 *	NASA-CASE-XLE-00143	c 14	N70-36618 *	NASA-CASE-XLE-02823	c 09	N71-23443 *
NASA-CASE-XLA-04295	c 16	N71-24170 *	NASA-CASE-XLE-00144	c 28	N70-34860 *	NASA-CASE-XLE-02824	c 03	N69-39980 *
NASA-CASE-XLA-04451	c 02	N71-12243 *	NASA-CASE-XLE-00145	c 28	N70-36806 *	NASA-CASE-XLE-02902	c 25	N71-21694 *
NASA-CASE-XLA-04555-1	c 14	N71-25892 *	NASA-CASE-XLE-00150	c 28	N70-41818 *	NASA-CASE-XLE-02991	c 17	N71-16025 *
NASA-CASE-XLA-04556	c 14	N69-27484 *	NASA-CASE-XLE-00151	c 17	N70-33283 *	NASA-CASE-XLE-02998	c 14	N70-42074 *
NASA-CASE-XLA-04605	c 32	N71-16106 *	NASA-CASE-XLE-00155	c 28	N71-29154 *	NASA-CASE-XLE-02999	c 15	N71-16052 *
NASA-CASE-XLA-04622	c 03	N70-41580 *	NASA-CASE-XLE-00164	c 15	N70-36411 *	NASA-CASE-XLE-03061-1	c 10	N71-24798 *
NASA-CASE-XLA-04804	c 31	N71-23008 *	NASA-CASE-XLE-00168	c 11	N70-33278 *	NASA-CASE-XLE-03157	c 28	N71-24736 *
NASA-CASE-XLA-04897	c 15	N72-22482 *	NASA-CASE-XLE-00170	c 15	N70-36412 *	NASA-CASE-XLE-03186-1	c 09	N79-21084 *
NASA-CASE-XLA-04901	c 31	N71-24315 *	NASA-CASE-XLE-00177	c 28	N70-40367 *	NASA-CASE-XLE-03280	c 14	N71-23093 *
NASA-CASE-XLA-04980-2	c 14	N72-28438 *	NASA-CASE-XLE-00207	c 28	N70-33375 *	NASA-CASE-XLE-03307	c 33	N71-14035 *
NASA-CASE-XLA-04980	c 09	N69-27422 *	NASA-CASE-XLE-00208	c 28	N70-34294 *	NASA-CASE-XLE-03432	c 33	N71-21415 *
NASA-CASE-XLA-05056	c 15	N72-11389 *	NASA-CASE-XLE-00209	c 22	N73-32528 *	NASA-CASE-XLE-03494	c 27	N71-21819 *
NASA-CASE-XLA-05087	c 14	N73-30391 *	NASA-CASE-XLE-00212	c 03	N70-34134 *	NASA-CASE-XLE-03512	c 12	N69-21466 *
NASA-CASE-XLA-05099	c 09	N73-13209 *	NASA-CASE-XLE-00222	c 02	N70-37939 *	NASA-CASE-XLE-03583	c 31	N71-17629 *
NASA-CASE-XLA-05100	c 15	N71-17696 *	NASA-CASE-XLE-00228	c 17	N70-38490 *	NASA-CASE-XLE-03629	c 17	N71-23248 *
NASA-CASE-XLA-05332	c 05	N71-11194 *	NASA-CASE-XLE-00231	c 17	N70-38198 *	NASA-CASE-XLE-03778	c 09	N69-21542 *
NASA-CASE-XLA-05369	c 31	N71-15687 *	NASA-CASE-XLE-00243	c 14	N70-38602 *	NASA-CASE-XLE-03803-2	c 15	N71-17651 *
NASA-CASE-XLA-05378	c 11	N71-21475 *	NASA-CASE-XLE-00252	c 11	N70-34844 *	NASA-CASE-XLE-03803	c 15	N71-23816 *
NASA-CASE-XLA-05464	c 21	N71-14132 *	NASA-CASE-XLE-00266	c 14	N70-34156 *	NASA-CASE-XLE-03804	c 10	N71-19471 *
NASA-CASE-XLA-05541	c 12	N71-26387 *	NASA-CASE-XLE-00267	c 28	N70-33356 *	NASA-CASE-XLE-03925	c 18	N71-22894 *
NASA-CASE-XLA-05749	c 15	N71-19569 *	NASA-CASE-XLE-00283	c 17	N70-36616 *	NASA-CASE-XLE-03940-2	c 17	N72-28536 *
NASA-CASE-XLA-05828	c 01	N71-13411 *	NASA-CASE-XLE-00288	c 15	N70-34247 *	NASA-CASE-XLE-03940	c 18	N71-26153 *
NASA-CASE-XLA-05906	c 31	N71-16221 *	NASA-CASE-XLE-00303	c 15	N70-36535 *	NASA-CASE-XLE-04026	c 14	N71-23267 *
NASA-CASE-XLA-05966	c 15	N72-12408 *	NASA-CASE-XLE-00323	c 28	N70-38505 *	NASA-CASE-XLE-04222	c 23	N71-22881 *
NASA-CASE-XLA-06095	c 01	N69-39981 *	NASA-CASE-XLE-00335	c 14	N70-35368 *	NASA-CASE-XLE-04250	c 09	N71-20446 *
NASA-CASE-XLA-06199	c 15	N71-24875 *	NASA-CASE-XLE-00342	c 28	N70-37980 *	NASA-CASE-XLE-04501	c 09	N71-23190 *
NASA-CASE-XLA-06232	c 25	N71-20563 *	NASA-CASE-XLE-00345	c 15	N70-38020 *	NASA-CASE-XLE-04503	c 14	N71-24864 *
NASA-CASE-XLA-06339	c 02	N71-13422 *	NASA-CASE-XLE-00353	c 18	N70-39897 *	NASA-CASE-XLE-04526	c 03	N71-11052 *
NASA-CASE-XLA-06683	c 14	N72-28436 *	NASA-CASE-XLE-00376	c 28	N70-37245 *	NASA-CASE-XLE-04535	c 03	N71-23354 *
NASA-CASE-XLA-06713	c 14	N71-28991 *	NASA-CASE-XLE-00387	c 33	N70-34812 *	NASA-CASE-XLE-04599	c 22	N72-20597 *
NASA-CASE-XLA-06824-2	c 02	N71-11037 *	NASA-CASE-XLE-00388	c 28	N70-34788 *	NASA-CASE-XLE-04603	c 33	N71-21507 *
NASA-CASE-XLA-06958	c 02	N71-11038 *	NASA-CASE-XLE-00397	c 15	N70-36492 *	NASA-CASE-XLE-04677	c 15	N71-10577 *
NASA-CASE-XLA-07390	c 15	N71-18616 *	NASA-CASE-XLE-00409	c 28	N71-15658 *	NASA-CASE-XLE-04787	c 03	N71-20492 *
NASA-CASE-XLA-07391	c 12	N71-17579 *	NASA-CASE-XLE-00454	c 23	N71-17802 *	NASA-CASE-XLE-04788	c 09	N71-22987 *
NASA-CASE-XLA-07424	c 14	N71-18482 *	NASA-CASE-XLE-00455	c 28	N70-38197 *	NASA-CASE-XLE-04791	c 32	N74-22096 *
NASA-CASE-XLA-07430	c 11	N72-22246 *	NASA-CASE-XLE-00490	c 33	N70-34545 *	NASA-CASE-XLE-04857	c 28	N71-23968 *
NASA-CASE-XLA-07473	c 15	N71-24895 *	NASA-CASE-XLE-00503	c 14	N70-34818 *	NASA-CASE-XLE-04946	c 17	N71-24911 *
NASA-CASE-XLA-07497	c 09	N71-12514 *	NASA-CASE-XLE-00519	c 28	N70-41576 *	NASA-CASE-XLE-05033	c 15	N71-23810 *
NASA-CASE-XLA-07728	c 33	N71-22890 *	NASA-CASE-XLE-00586	c 15	N71-15968 *	NASA-CASE-XLE-05079	c 15	N71-17652 *
NASA-CASE-XLA-07732	c 08	N71-18751 *	NASA-CASE-XLE-00620	c 32	N70-41579 *	NASA-CASE-XLE-05130-2	c 15	N71-19570 *
NASA-CASE-XLA-07788	c 09	N71-29139 *	NASA-CASE-XLE-00660	c 28	N70-39925 *	NASA-CASE-XLE-05130	c 15	N69-21362 *
NASA-CASE-XLA-07813	c 14	N72-17328 *	NASA-CASE-XLE-00685	c 28	N70-41992 *	NASA-CASE-XLE-05230-2	c 14	N73-13417 *
NASA-CASE-XLA-07828	c 08	N71-27057 *	NASA-CASE-XLE-00688	c 14	N70-41330 *	NASA-CASE-XLE-05230	c 14	N72-27410 *
NASA-CASE-XLA-07829	c 15	N72-16329 *	NASA-CASE-XLE-00690	c 25	N69-39884 *	NASA-CASE-XLE-05260	c 14	N71-20429 *
NASA-CASE-XLA-07911	c 15	N71-15571 *	NASA-CASE-XLE-00702	c 14	N70-40203 *	NASA-CASE-XLE-05641-1	c 15	N71-26346 *
NASA-CASE-XLA-08254	c 14	N71-26161 *	NASA-CASE-XLE-00703	c 15	N71-15967 *	NASA-CASE-XLE-05689	c 28	N71-15659 *
NASA-CASE-XLA-08491	c 05	N69-21380 *	NASA-CASE-XLE-00715	c 15	N70-34859 *	NASA-CASE-XLE-05913	c 33	N71-14032 *
NASA-CASE-XLA-08493	c 10	N71-19421 *	NASA-CASE-XLE-00720	c 14	N70-40201 *	NASA-CASE-XLE-06094	c 33	N78-17293 *
NASA-CASE-XLA-08507	c 09	N69-39984 *	NASA-CASE-XLE-00726	c 17	N71-15644 *	NASA-CASE-XLE-06461-2	c 17	N72-28535 *
NASA-CASE-XLA-08530	c 32	N71-25360 *	NASA-CASE-XLE-00785	c 33	N71-16104 *	NASA-CASE-XLE-06461	c 17	N72-22530 *
NASA-CASE-XLA-08645	c 15	N69-21465 *	NASA-CASE-XLE-00787	c 14	N71-21090 *	NASA-CASE-XLE-06773	c 15	N71-23817 *
NASA-CASE-XLA-08646	c 14	N71-17586 *	NASA-CASE-XLE-00808	c 24	N71-10560 *	NASA-CASE-XLE-06774-2	c 06	N72-25150 *
NASA-CASE-XLA-08799	c 10	N71-27272 *	NASA-CASE-XLE-00810	c 15	N70-34861 *	NASA-CASE-XLE-06969	c 17	N71-24142 *
NASA-CASE-XLA-08801-1	c 02	N71-11043 *	NASA-CASE-XLE-00815	c 15	N70-35407 *	NASA-CASE-XLE-07087	c 06	N69-39889 *
NASA-CASE-XLA-08802	c 06	N71-11238 *	NASA-CASE-XLE-00817	c 28	N70-33265 *	NASA-CASE-XLE-08511-2	c 18	N71-16105 *
NASA-CASE-XLA-08911	c 15	N71-27214 *	NASA-CASE-XLE-00820	c 14	N71-16014 *	NASA-CASE-XLE-08511	c 18	N71-23710 *
NASA-CASE-XLA-08913	c 14	N71-28933 *	NASA-CASE-XLE-00953	c 15	N71-15966 *	NASA-CASE-XLE-08569-2	c 03	N71-24681 *
NASA-CASE-XLA-08914-2	c 25	N82-21269 *	NASA-CASE-XLE-01015	c 03	N69-39898 *	NASA-CASE-XLE-08569	c 03	N71-23449 *
NASA-CASE-XLA-08914	c 15	N73-12492 *	NASA-CASE-XLE-01092	c 15	N71-22797 *	NASA-CASE-XLE-08917-2	c 15	N71-24836 *
NASA-CASE-XLA-08916-2	c 14	N73-28487 *	NASA-CASE-XLE-01124	c 28	N71-14043 *	NASA-CASE-XLE-08917	c 15	N71-15597 *
NASA-CASE-XLA-08916	c 15	N71-29018 *	NASA-CASE-XLE-01182	c 27	N71-15635 *	NASA-CASE-XLE-09341	c 12	N71-28741 *
NASA-CASE-XLA-08966-1	c 17	N71-25903 *	NASA-CASE-XLE-01246	c 14	N71-10797 *	NASA-CASE-XLE-09475-1	c 33	N71-15568 *
NASA-CASE-XLA-08967	c 02	N71-27088 *	NASA-CASE-XLE-01300	c 15	N70-41993 *	NASA-CASE-XLE-09527-2	c 15	N71-26189 *
NASA-CASE-XLA-09122	c 15	N69-27505 *	NASA-CASE-XLE-01399	c 33	N71-15625 *	NASA-CASE-XLE-09527	c 15	N71-17688 *
NASA-CASE-XLA-09346	c 15	N71-28740 *	NASA-CASE-XLE-01449	c 15	N70-41646 *	NASA-CASE-XLE-10326-2	c 15	N72-29488 *
NASA-CASE-XLA-09371	c 10	N71-18724 *	NASA-CASE-XLE-01481	c 14	N71-10781 *	NASA-CASE-XLE-10326-4	c 37	N74-15125 *
NASA-CASE-XLA-09480	c 11	N71-33612 *	NASA-CASE-XLE-01512	c 12	N70-40124 *	NASA-CASE-XLE-10337	c 15	N71-24046 *
NASA-CASE-XLA-09843	c 15	N72-27485 *	NASA-CASE-XLE-01533	c 11	N71-10777 *	NASA-CASE-XLE-103477-1	c 28	N71-20330 *
NASA-CASE-XLA-09881	c 31	N71-16085 *	NASA-CASE-XLE-01604-2	c 15	N71-15610 *	NASA-CASE-XLE-10453-2	c 28	N73-27699 *

NASA-CASE-XLE-10466	c 17	N69-25147 *	#	NASA-CASE-XMF-03290	c 15	N71-23256 *	NASA-CASE-XMS-01177	c 05	N71-19440 *	
NASA-CASE-XLE-10529	c 14	N69-23191 *	#	NASA-CASE-XMF-03498	c 15	N71-15986 *	NASA-CASE-XMS-01240	c 05	N70-35152 *	
NASA-CASE-XLE-10715	c 26	N71-23292 *		NASA-CASE-XMF-03511	c 15	N71-22799 *	NASA-CASE-XMS-01244-1	c 33	N79-33393 *	
NASA-CASE-XLE-10717	c 37	N75-29426 *		NASA-CASE-XMF-03793	c 15	N71-24833 *	NASA-CASE-XMS-01295-1	c 37	N79-21345 *	
NASA-CASE-XLE-10910	c 18	N71-29040 *		NASA-CASE-XMF-03844-1	c 14	N71-26474 *	NASA-CASE-XMS-01315	c 09	N70-41675 *	
NASA-CASE-XLE-2529-2	c 36	N75-27364 *		NASA-CASE-XMF-03856	c 31	N70-34159 *	NASA-CASE-XMS-01330	c 37	N75-27376 *	
NASA-CASE-XLE-2529-3	c 33	N74-20859 *		NASA-CASE-XMF-03873	c 06	N69-39733 *	#	NASA-CASE-XMS-01445	c 12	N71-16031 *
				NASA-CASE-XMF-03934	c 09	N71-22985 *	NASA-CASE-XMS-01492	c 05	N70-41297 *	
NASA-CASE-XMF-00148	c 28	N70-38710 *		NASA-CASE-XMF-03968	c 14	N71-27186 *	NASA-CASE-XMS-01546	c 14	N70-40233 *	
NASA-CASE-XMF-00185	c 21	N70-34539 *		NASA-CASE-XMF-03988	c 15	N71-21403 *	NASA-CASE-XMS-01554	c 10	N71-10578 *	
NASA-CASE-XMF-00324	c 09	N70-34596 *		NASA-CASE-XMF-04042	c 15	N71-23023 *	NASA-CASE-XMS-01615	c 05	N70-41329 *	
NASA-CASE-XMF-00339	c 15	N70-39896 *		NASA-CASE-XMF-04132	c 15	N69-27502 *	#	NASA-CASE-XMS-01618	c 14	N71-20741 *
NASA-CASE-XMF-00341	c 15	N70-33323 *		NASA-CASE-XMF-04133	c 06	N71-20717 *	NASA-CASE-XMS-01620	c 23	N71-15673 *	
NASA-CASE-XMF-00369	c 09	N70-36494 *		NASA-CASE-XMF-04134	c 14	N71-23755 *	NASA-CASE-XMS-01624	c 15	N70-40062 *	
NASA-CASE-XMF-00375	c 15	N70-34249 *		NASA-CASE-XMF-04163	c 02	N71-23007 *	NASA-CASE-XMS-01625	c 15	N71-23022 *	
NASA-CASE-XMF-00389	c 31	N70-34176 *		NASA-CASE-XMF-04208	c 33	N71-29051 *	NASA-CASE-XMS-01816	c 33	N71-15623 *	
NASA-CASE-XMF-00392	c 15	N70-34814 *		NASA-CASE-XMF-04237	c 33	N71-16278 *	NASA-CASE-XMS-01905	c 12	N71-21089 *	
NASA-CASE-XMF-00411	c 11	N70-36913 *		NASA-CASE-XMF-04238	c 09	N69-39734 *	#	NASA-CASE-XMS-01906	c 31	N70-41373 *
NASA-CASE-XMF-00421	c 09	N70-34502 *		NASA-CASE-XMF-04367	c 09	N71-23545 *	NASA-CASE-XMS-01991	c 09	N71-21449 *	
NASA-CASE-XMF-00424	c 11	N70-38196 *		NASA-CASE-XMF-04415	c 14	N71-24693 *	NASA-CASE-XMS-01994-1	c 14	N72-17326 *	
NASA-CASE-XMF-00437	c 07	N70-40202 *		NASA-CASE-XMF-04494-1	c 33	N79-33392 *	NASA-CASE-XMS-02009	c 33	N71-20834 *	
NASA-CASE-XMF-00442	c 31	N71-10747 *		NASA-CASE-XMF-04592-1	c 20	N79-21125 *	NASA-CASE-XMS-02063	c 03	N71-29044 *	
NASA-CASE-XMF-00447	c 14	N70-33179 *		NASA-CASE-XMF-04593-1	c 20	N79-21125 *	NASA-CASE-XMS-02087	c 09	N70-41717 *	
NASA-CASE-XMF-00456	c 14	N70-34705 *		NASA-CASE-XMF-04680	c 15	N71-19489 *	NASA-CASE-XMS-02159	c 10	N71-22961 *	
NASA-CASE-XMF-00462	c 14	N70-34298 *		NASA-CASE-XMF-04709	c 15	N71-15609 *	NASA-CASE-XMS-02182	c 10	N71-28783 *	
NASA-CASE-XMF-00479	c 14	N70-34794 *		NASA-CASE-XMF-04958-1	c 10	N71-26414 *	NASA-CASE-XMS-02184	c 15	N71-20813 *	
NASA-CASE-XMF-00480	c 14	N70-39898 *		NASA-CASE-XMF-04966	c 14	N71-17658 *	NASA-CASE-XMS-02383	c 15	N71-15918 *	
NASA-CASE-XMF-00515	c 15	N70-34664 *		NASA-CASE-XMF-05046	c 33	N71-28892 *	NASA-CASE-XMS-02399	c 05	N71-22896 *	
NASA-CASE-XMF-00517	c 03	N70-34157 *		NASA-CASE-XMF-05114-2	c 15	N71-26148 *	NASA-CASE-XMS-02532	c 15	N70-41808 *	
NASA-CASE-XMF-00580	c 11	N70-35383 *		NASA-CASE-XMF-05114-3	c 15	N71-24865 *	NASA-CASE-XMS-02677	c 31	N70-42075 *	
NASA-CASE-XMF-00640	c 15	N70-39924 *		NASA-CASE-XMF-05114	c 15	N71-17650 *	NASA-CASE-XMS-02744	c 33	N75-27249 *	
NASA-CASE-XMF-00641	c 31	N70-36410 *		NASA-CASE-XMF-05195	c 10	N71-24861 *	NASA-CASE-XMS-02872	c 05	N69-21925 *	
NASA-CASE-XMF-00658	c 12	N70-38997 *		NASA-CASE-XMF-05224	c 14	N71-23726 *	NASA-CASE-XMS-02930	c 11	N71-23042 *	
NASA-CASE-XMF-00663	c 08	N71-18752 *		NASA-CASE-XMF-05279	c 18	N71-16124 *	NASA-CASE-XMS-02952	c 18	N71-20742 *	
NASA-CASE-XMF-00684	c 21	N71-21688 *		NASA-CASE-XMF-05344	c 31	N71-16345 *	NASA-CASE-XMS-02977	c 11	N71-10746 *	
NASA-CASE-XMF-00701	c 09	N70-40272 *		NASA-CASE-XMF-05373-1	c 33	N79-21264 *	NASA-CASE-XMS-03252	c 15	N71-10658 *	
NASA-CASE-XMF-00722	c 15	N70-40204 *		NASA-CASE-XMF-05757-1	c 31	N79-21227 *	NASA-CASE-XMS-03371	c 05	N70-42000 *	
NASA-CASE-XMF-00906	c 09	N70-41655 *		NASA-CASE-XMF-05835	c 08	N71-12504 *	NASA-CASE-XMS-03454	c 09	N71-20658 *	
NASA-CASE-XMF-00908	c 14	N70-40238 *		NASA-CASE-XMF-05843	c 03	N71-11055 *	NASA-CASE-XMS-03537	c 15	N69-21471 *	
NASA-CASE-XMF-00923	c 28	N70-36802 *		NASA-CASE-XMF-05844	c 14	N71-17587 *	NASA-CASE-XMS-03542	c 09	N71-28926 *	
NASA-CASE-XMF-00968	c 28	N71-15660 *		NASA-CASE-XMF-05868	c 26	N75-27125 *	NASA-CASE-XMS-03613	c 31	N71-16346 *	
NASA-CASE-XMF-01016	c 26	N71-17818 *		NASA-CASE-XMF-05882	c 35	N75-27329 *	NASA-CASE-XMS-03694-1	c 54	N82-29002 *	
NASA-CASE-XMF-01030	c 18	N70-41583 *		NASA-CASE-XMF-05941	c 31	N71-23912 *	NASA-CASE-XMS-03700	c 15	N69-24266 *	
NASA-CASE-XMF-01045	c 15	N70-40354 *		NASA-CASE-XMF-05964-1	c 20	N79-21124 *	NASA-CASE-XMS-03722	c 15	N71-21530 *	
NASA-CASE-XMF-01049	c 15	N71-23049 *		NASA-CASE-XMF-05999	c 15	N71-29032 *	NASA-CASE-XMS-03745	c 15	N71-21076 *	
NASA-CASE-XMF-01083	c 15	N71-22723 *		NASA-CASE-XMF-06053	c 26	N75-27126 *	NASA-CASE-XMS-03792	c 14	N70-41812 *	
NASA-CASE-XMF-01096	c 10	N71-16030 *		NASA-CASE-XMF-06065	c 15	N71-20395 *	NASA-CASE-XMS-04061-1	c 09	N69-39885 *	
NASA-CASE-XMF-01097	c 10	N71-16058 *		NASA-CASE-XMF-06092	c 07	N71-24612 *	NASA-CASE-XMS-04072	c 15	N70-42017 *	
NASA-CASE-XMF-01099	c 14	N71-15969 *		NASA-CASE-XMF-06409	c 06	N71-23230 *	NASA-CASE-XMS-04142	c 31	N70-41631 *	
NASA-CASE-XMF-01129	c 09	N70-38712 *		NASA-CASE-XMF-06515	c 14	N71-23227 *	NASA-CASE-XMS-04170	c 05	N71-22748 *	
NASA-CASE-XMF-01160	c 07	N71-11298 *		NASA-CASE-XMF-06519	c 09	N71-12519 *	NASA-CASE-XMS-04178	c 15	N71-22798 *	
NASA-CASE-XMF-01174	c 02	N70-41589 *		NASA-CASE-XMF-06531	c 14	N71-17575 *	NASA-CASE-XMS-04201	c 14	N71-22990 *	
NASA-CASE-XMF-01371	c 15	N70-41829 *		NASA-CASE-XMF-06589	c 05	N71-23159 *	NASA-CASE-XMS-04212-1	c 05	N71-12346 *	
NASA-CASE-XMF-01402	c 18	N71-21651 *		NASA-CASE-XMF-06617	c 09	N71-24843 *	NASA-CASE-XMS-04213-1	c 09	N71-26002 *	
NASA-CASE-XMF-01452	c 15	N70-41371 *		NASA-CASE-XMF-06884-1	c 20	N79-21123 *	NASA-CASE-XMS-04215-1	c 09	N69-39987 *	
NASA-CASE-XMF-01483	c 14	N69-27431 *	#	NASA-CASE-XMF-06888	c 15	N71-24044 *	NASA-CASE-XMS-04268	c 33	N71-16277 *	
NASA-CASE-XMF-01543	c 31	N71-17730 *		NASA-CASE-XMF-06892	c 09	N71-24805 *	NASA-CASE-XMS-04269	c 16	N71-22895 *	
NASA-CASE-XMF-01544	c 28	N70-34162 *		NASA-CASE-XMF-06900-1	c 27	N79-21191 *	NASA-CASE-XMS-04292	c 15	N71-22722 *	
NASA-CASE-XMF-01598	c 21	N71-15583 *		NASA-CASE-XMF-06926	c 28	N71-22983 *	NASA-CASE-XMS-04300	c 09	N71-19479 *	
NASA-CASE-XMF-01599	c 09	N71-20705 *		NASA-CASE-XMF-07069	c 15	N71-23815 *	NASA-CASE-XMS-04312	c 07	N71-22984 *	
NASA-CASE-XMF-01667	c 15	N71-17647 *		NASA-CASE-XMF-07488	c 11	N71-18773 *	NASA-CASE-XMS-04318	c 15	N69-27871 *	
NASA-CASE-XMF-01669	c 21	N71-23289 *		NASA-CASE-XMF-07587	c 15	N71-18701 *	NASA-CASE-XMS-04390	c 31	N70-41871 *	
NASA-CASE-XMF-01730	c 15	N71-23050 *		NASA-CASE-XMF-07770-2	c 18	N71-26772 *	NASA-CASE-XMS-04533	c 15	N71-23086 *	
NASA-CASE-XMF-01772	c 11	N70-41677 *		NASA-CASE-XMF-07808	c 15	N71-23812 *	NASA-CASE-XMS-04545	c 15	N71-22878 *	
NASA-CASE-XMF-01779	c 12	N71-20815 *		NASA-CASE-XMF-08217	c 03	N71-23239 *	NASA-CASE-XMS-04625	c 05	N71-20718 *	
NASA-CASE-XMF-01813	c 28	N70-41582 *		NASA-CASE-XMF-08522	c 15	N71-19486 *	NASA-CASE-XMS-04670	c 54	N78-17678 *	
NASA-CASE-XMF-01887	c 15	N71-10617 *		NASA-CASE-XMF-08523	c 31	N71-20396 *	NASA-CASE-XMS-04798	c 11	N71-21474 *	
NASA-CASE-XMF-01892	c 10	N71-22986 *		NASA-CASE-XMF-08651	c 06	N71-11236 *	NASA-CASE-XMS-04826	c 28	N71-28849 *	
NASA-CASE-XMF-01899	c 31	N70-41948 *		NASA-CASE-XMF-08652	c 06	N71-11243 *	NASA-CASE-XMS-04843	c 03	N69-21469 *	
NASA-CASE-XMF-01973	c 31	N70-41588 *		NASA-CASE-XMF-08655	c 06	N71-11239 *	NASA-CASE-XMS-04890-1	c 15	N70-22192 *	
NASA-CASE-XMF-01974	c 14	N71-22752 *		NASA-CASE-XMF-08656	c 06	N71-11242 *	NASA-CASE-XMS-04917	c 14	N69-24257 *	
NASA-CASE-XMF-02039	c 15	N71-15871 *		NASA-CASE-XMF-08665	c 10	N71-19467 *	NASA-CASE-XMS-04919	c 09	N71-23270 *	
NASA-CASE-XMF-02107	c 15	N71-10809 *		NASA-CASE-XMF-08674	c 09	N71-28807 *	NASA-CASE-XMS-04928	c 54	N78-17679 *	
NASA-CASE-XMF-02108	c 31	N70-36845 *		NASA-CASE-XMF-08804	c 06	N71-24717 *	NASA-CASE-XMS-04935	c 05	N71-11190 *	
NASA-CASE-XMF-02221	c 18	N71-27170 *		NASA-CASE-XMF-09422	c 07	N71-19436 *	NASA-CASE-XMS-05303	c 07	N69-27462 *	
NASA-CASE-XMF-02263	c 05	N74-10907 *		NASA-CASE-XMF-09902	c 15	N72-11387 *	NASA-CASE-XMS-05304	c 05	N71-12336 *	
NASA-CASE-XMF-02303	c 17	N71-23828 *		NASA-CASE-XMF-10040	c 15	N71-22877 *	NASA-CASE-XMS-05307	c 09	N69-24330 *	
NASA-CASE-XMF-02307	c 14	N71-10779 *		NASA-CASE-XMF-10289	c 14	N71-23699 *	NASA-CASE-XMS-05365	c 14	N71-22993 *	
NASA-CASE-XMF-02330	c 15	N71-23798 *		NASA-CASE-XMF-10753	c 06	N71-11237 *	NASA-CASE-XMS-05454-1	c 07	N71-12391 *	
NASA-CASE-XMF-02392	c 32	N71-24285 *		NASA-CASE-XMF-10968	c 14	N71-24234 *	NASA-CASE-XMS-05516	c 15	N71-17803 *	
NASA-CASE-XMF-02433	c 14	N71-10616 *		NASA-CASE-XMF-14032	c 20	N71-16340 *	NASA-CASE-XMS-05562-1	c 09	N69-39986 *	
NASA-CASE-XMF-02526-1	c 27	N79-21190 *		NASA-CASE-XMF-14301	c 09	N71-23188 *	NASA-CASE-XMS-05605-1	c 10	N71-19468 *	
NASA-CASE-XMF-02527-1	c 27	N79-21190 *					NASA-CASE-XMS-05731	c 35	N75-29382 *	
NASA-CASE-XMF-02584	c 06	N71-20905 *		NASA-CASE-XMS-00259	c 18	N70-36400 *	NASA-CASE-XMS-05890	c 09	N71-23191 *	
NASA-CASE-XMF-02783-1	c 27	N79-21190 *		NASA-CASE-XMS-00486	c 33	N70-33344 *	NASA-CASE-XMS-05894-1	c 15	N69-21924 *	
NASA-CASE-XMF-02786	c 17	N71-20743 *		NASA-CASE-XMS-00583	c 28	N70-38504 *	NASA-CASE-XMS-05909-1	c 14	N69-27459 *	
NASA-CASE-XMF-02822	c 14	N70-41994 *		NASA-CASE-XMS-00784	c 05	N71-12335 *	NASA-C			

REPORT NUMBER INDEX

NASA-CASE-XNP-09770-3

NASA-CASE-XMS-06767-1	c 14	N71-20435 *	NASA-CASE-XNP-01311	c 26	N75-29236 *	NASA-CASE-XNP-04389	c 28	N71-20942 *
NASA-CASE-XMS-06782	c 32	N71-15974 *	NASA-CASE-XNP-01318	c 10	N71-23033 *	NASA-CASE-XNP-04623	c 10	N71-26103 *
NASA-CASE-XMS-06876	c 15	N71-21536 *	NASA-CASE-XNP-01328	c 26	N71-18064 *	NASA-CASE-XNP-04731	c 15	N71-24042 *
NASA-CASE-XMS-06949	c 09	N69-21467 * #	NASA-CASE-XNP-01383	c 09	N71-10659 *	NASA-CASE-XNP-04732	c 09	N71-20851 *
NASA-CASE-XMS-07168	c 07	N71-11300 *	NASA-CASE-XNP-01390	c 28	N70-41275 *	NASA-CASE-XNP-04758	c 03	N71-24605 *
NASA-CASE-XMS-07487	c 15	N71-23255 *	NASA-CASE-XNP-01412	c 15	N70-42034 *	NASA-CASE-XNP-04780	c 08	N71-19687 *
NASA-CASE-XMS-07846-1	c 09	N69-21927 * #	NASA-CASE-XNP-01458	c 04	N78-17031 *	NASA-CASE-XNP-04816	c 06	N69-39936 * #
NASA-CASE-XMS-08589-1	c 09	N71-20569 *	NASA-CASE-XNP-01464	c 03	N71-10728 *	NASA-CASE-XNP-04817	c 14	N71-23225 *
NASA-CASE-XMS-09310	c 15	N71-22706 *	NASA-CASE-XNP-01466	c 10	N71-26434 *	NASA-CASE-XNP-04819	c 08	N71-23295 *
NASA-CASE-XMS-09352	c 09	N71-23316 *	NASA-CASE-XNP-01472	c 14	N70-41807 *	NASA-CASE-XNP-04969	c 11	N69-27466 * #
NASA-CASE-XMS-09571	c 05	N71-19439 *	NASA-CASE-XNP-01501	c 21	N70-41930 *	NASA-CASE-XNP-05082	c 15	N70-41960 *
NASA-CASE-XMS-09610	c 07	N71-24625 *	NASA-CASE-XNP-01567	c 15	N70-41310 *	NASA-CASE-XNP-05219	c 16	N71-15550 *
NASA-CASE-XMS-09632-1	c 05	N71-11203 *	NASA-CASE-XNP-01641	c 15	N71-22997 *	NASA-CASE-XNP-05231	c 14	N73-28491 *
NASA-CASE-XMS-09635	c 05	N71-24623 *	NASA-CASE-XNP-01659	c 14	N71-23039 *	NASA-CASE-XNP-05254	c 07	N71-20791 *
NASA-CASE-XMS-09636	c 05	N71-12344 *	NASA-CASE-XNP-01660	c 14	N71-23036 *	NASA-CASE-XNP-05297	c 15	N71-23811 *
NASA-CASE-XMS-09637-1	c 05	N71-24730 *	NASA-CASE-XNP-01735	c 07	N71-22750 *	NASA-CASE-XNP-05381	c 09	N71-20842 *
NASA-CASE-XMS-09652-1	c 05	N71-26333 *	NASA-CASE-XNP-01747	c 15	N71-23024 *	NASA-CASE-XNP-05382	c 10	N71-23544 *
NASA-CASE-XMS-09653	c 54	N78-17680 *	NASA-CASE-XNP-01749	c 27	N70-41897 *	NASA-CASE-XNP-05415	c 08	N71-12505 *
NASA-CASE-XMS-09690	c 33	N72-25913 *	NASA-CASE-XNP-01753	c 08	N71-22897 *	NASA-CASE-XNP-05429	c 26	N71-21824 *
NASA-CASE-XMS-09691-1	c 18	N71-15545 *	NASA-CASE-XNP-01848	c 15	N71-28959 *	NASA-CASE-XNP-05524	c 33	N71-24876 *
NASA-CASE-XMS-10269	c 05	N71-24147 *	NASA-CASE-XNP-01855	c 15	N71-28937 *	NASA-CASE-XNP-05530	c 14	N73-32321 *
NASA-CASE-XMS-10660-1	c 15	N71-25975 *	NASA-CASE-XNP-01951	c 09	N70-41929 *	NASA-CASE-XNP-05535	c 14	N71-23040 *
NASA-CASE-XMS-10984-1	c 10	N71-19417 *	NASA-CASE-XNP-01954	c 28	N71-28850 *	NASA-CASE-XNP-05612	c 09	N69-21468 * #
NASA-CASE-XMS-10993	c 15	N71-28936 *	NASA-CASE-XNP-01959	c 26	N71-23043 *	NASA-CASE-XNP-05634	c 15	N71-24834 *
NASA-CASE-XMS-12158-1	c 31	N69-27499 * #	NASA-CASE-XNP-01960	c 09	N71-23027 *	NASA-CASE-XNP-05821	c 03	N71-11056 *
NASA-CASE-XMS-13052	c 14	N71-20427 *	NASA-CASE-XNP-01961	c 26	N71-29156 *	NASA-CASE-XNP-05975	c 15	N69-23185 * #
NASA-CASE-XNP-00214	c 15	N70-36908 *	NASA-CASE-XNP-01962	c 32	N70-41370 *	NASA-CASE-XNP-06028	c 09	N71-23189 *
NASA-CASE-XNP-00217	c 28	N70-38181 *	NASA-CASE-XNP-02029	c 14	N70-41955 *	NASA-CASE-XNP-06031	c 15	N71-15606 *
NASA-CASE-XNP-00234	c 28	N70-38645 *	NASA-CASE-XNP-02092	c 15	N70-42033 *	NASA-CASE-XNP-06032	c 09	N69-21926 * #
NASA-CASE-XNP-00249	c 28	N70-38249 *	NASA-CASE-XNP-02139	c 18	N71-24184 *	NASA-CASE-XNP-06234	c 10	N71-27137 *
NASA-CASE-XNP-00250	c 11	N71-28779 *	NASA-CASE-XNP-02140	c 09	N71-23097 *	NASA-CASE-XNP-06503	c 23	N71-29049 *
NASA-CASE-XNP-00294	c 21	N70-38938 *	NASA-CASE-XNP-02251	c 12	N71-20896 *	NASA-CASE-XNP-06505	c 10	N71-24799 *
NASA-CASE-XNP-00384	c 09	N71-13530 *	NASA-CASE-XNP-02278	c 15	N71-28951 *	NASA-CASE-XNP-06506	c 03	N71-11050 *
NASA-CASE-XNP-00416	c 15	N70-36947 *	NASA-CASE-XNP-02340	c 23	N69-24332 * #	NASA-CASE-XNP-06507	c 09	N71-23548 *
NASA-CASE-XNP-00425	c 11	N70-38202 *	NASA-CASE-XNP-02341	c 15	N71-21531 *	NASA-CASE-XNP-06508	c 18	N69-39895 * #
NASA-CASE-XNP-00431	c 09	N70-38998 *	NASA-CASE-XNP-02389	c 07	N71-28900 *	NASA-CASE-XNP-06509	c 14	N71-23226 *
NASA-CASE-XNP-00432	c 08	N70-35423 *	NASA-CASE-XNP-02500	c 18	N71-27397 *	NASA-CASE-XNP-06510	c 14	N71-23797 *
NASA-CASE-XNP-00438	c 21	N70-35089 *	NASA-CASE-XNP-02507	c 31	N71-17679 *	NASA-CASE-XNP-06611	c 07	N71-26102 *
NASA-CASE-XNP-00449	c 14	N70-35220 *	NASA-CASE-XNP-02588	c 15	N71-18613 *	NASA-CASE-XNP-06914	c 15	N71-21489 *
NASA-CASE-XNP-00450	c 15	N70-38603 *	NASA-CASE-XNP-02592	c 24	N71-20518 *	NASA-CASE-XNP-06933	c 14	N73-32321 *
NASA-CASE-XNP-00459	c 11	N70-38675 *	NASA-CASE-XNP-02595	c 31	N71-21881 *	NASA-CASE-XNP-06936	c 15	N71-24695 *
NASA-CASE-XNP-00463	c 33	N70-36847 *	NASA-CASE-XNP-02654	c 10	N70-42032 *	NASA-CASE-XNP-06937	c 09	N71-19516 *
NASA-CASE-XNP-00465	c 21	N70-35395 *	NASA-CASE-XNP-02713	c 10	N69-39888 * #	NASA-CASE-XNP-06942	c 28	N71-23293 *
NASA-CASE-XNP-00476	c 15	N70-38620 *	NASA-CASE-XNP-02723	c 07	N70-41680 *	NASA-CASE-XNP-06957	c 14	N71-21088 *
NASA-CASE-XNP-00477	c 08	N73-28045 *	NASA-CASE-XNP-02748	c 08	N71-22749 *	NASA-CASE-XNP-07040	c 08	N71-12500 *
NASA-CASE-XNP-00540	c 09	N70-35382 *	NASA-CASE-XNP-02778	c 08	N71-22710 *	NASA-CASE-XNP-07169	c 15	N73-32362 *
NASA-CASE-XNP-00595	c 15	N70-34967 *	NASA-CASE-XNP-02791	c 07	N71-23026 *	NASA-CASE-XNP-07477	c 09	N71-26092 *
NASA-CASE-XNP-00597	c 18	N71-23088 *	NASA-CASE-XNP-02792	c 14	N71-28958 *	NASA-CASE-XNP-07478	c 14	N69-21923 * #
NASA-CASE-XNP-00610	c 28	N70-36910 *	NASA-CASE-XNP-02839	c 28	N70-41922 *	NASA-CASE-XNP-07481	c 25	N69-21929 * #
NASA-CASE-XNP-00611	c 09	N70-35219 *	NASA-CASE-XNP-02862-1	c 15	N71-28624 *	NASA-CASE-XNP-07659	c 06	N71-22975 *
NASA-CASE-XNP-00612	c 11	N70-38182 *	NASA-CASE-XNP-02888	c 18	N71-21068 *	NASA-CASE-XNP-08124-2	c 06	N73-13129 *
NASA-CASE-XNP-00614	c 14	N70-36907 *	NASA-CASE-XNP-02899-1	c 33	N79-21265 *	NASA-CASE-XNP-08124	c 15	N71-27184 *
NASA-CASE-XNP-00637	c 14	N70-40273 *	NASA-CASE-XNP-02923	c 28	N71-23081 *	NASA-CASE-XNP-08274	c 10	N71-13537 *
NASA-CASE-XNP-00644	c 03	N70-36803 *	NASA-CASE-XNP-02982	c 31	N70-41855 *	NASA-CASE-XNP-08567	c 09	N71-26000 *
NASA-CASE-XNP-00646	c 14	N70-35666 *	NASA-CASE-XNP-02983	c 14	N71-21091 *	NASA-CASE-XNP-08680	c 14	N71-22995 *
NASA-CASE-XNP-00650	c 27	N71-28929 *	NASA-CASE-XNP-03063	c 17	N71-23365 *	NASA-CASE-XNP-08832	c 08	N71-12506 *
NASA-CASE-XNP-00676	c 15	N70-38996 *	NASA-CASE-XNP-03128	c 10	N70-41991 *	NASA-CASE-XNP-08835-1	c 37	N80-14395 *
NASA-CASE-XNP-00683	c 09	N70-35425 *	NASA-CASE-XNP-03134	c 07	N71-10676 *	NASA-CASE-XNP-08836	c 09	N71-12515 *
NASA-CASE-XNP-00708	c 14	N70-35394 *	NASA-CASE-XNP-03250	c 06	N71-23500 *	NASA-CASE-XNP-08837	c 18	N71-16210 *
NASA-CASE-XNP-00710	c 15	N71-10778 *	NASA-CASE-XNP-03263	c 09	N71-18843 *	NASA-CASE-XNP-08840	c 23	N71-16365 *
NASA-CASE-XNP-00732	c 28	N70-41447 *	NASA-CASE-XNP-03282	c 28	N72-20758 *	NASA-CASE-XNP-08875	c 10	N71-23099 *
NASA-CASE-XNP-00733	c 06	N70-34946 *	NASA-CASE-XNP-03332	c 09	N71-10618 *	NASA-CASE-XNP-08876	c 17	N73-28573 *
NASA-CASE-XNP-00738	c 09	N70-38201 *	NASA-CASE-XNP-03378	c 03	N71-11051 *	NASA-CASE-XNP-08877	c 15	N71-23025 *
NASA-CASE-XNP-00745	c 10	N71-28960 *	NASA-CASE-XNP-03413	c 03	N71-26726 *	NASA-CASE-XNP-08880	c 09	N71-24808 *
NASA-CASE-XNP-00746	c 07	N71-21476 *	NASA-CASE-XNP-03459-2	c 18	N71-15688 *	NASA-CASE-XNP-08881	c 17	N71-28747 *
NASA-CASE-XNP-00748	c 07	N70-36911 *	NASA-CASE-XNP-03459	c 15	N71-21078 *	NASA-CASE-XNP-08882	c 15	N69-39935 * #
NASA-CASE-XNP-00777	c 10	N71-19469 *	NASA-CASE-XNP-03578	c 11	N71-23030 *	NASA-CASE-XNP-08883	c 23	N71-16101 *
NASA-CASE-XNP-00816	c 28	N71-28928 *	NASA-CASE-XNP-03623	c 09	N73-28084 *	NASA-CASE-XNP-08897	c 15	N71-17694 *
NASA-CASE-XNP-00826	c 03	N71-20895 *	NASA-CASE-XNP-03637	c 15	N71-21311 *	NASA-CASE-XNP-08907	c 23	N71-29123 *
NASA-CASE-XNP-00840	c 15	N70-38225 *	NASA-CASE-XNP-03692	c 28	N71-24321 *	NASA-CASE-XNP-08961	c 14	N71-24809 *
NASA-CASE-XNP-00876	c 28	N70-41311 *	NASA-CASE-XNP-03744	c 10	N71-20448 *	NASA-CASE-XNP-09205	c 14	N71-17657 *
NASA-CASE-XNP-00911	c 08	N70-41961 *	NASA-CASE-XNP-03796	c 23	N71-15467 *	NASA-CASE-XNP-09225	c 09	N69-24333 * #
NASA-CASE-XNP-00920	c 15	N71-15906 *	NASA-CASE-XNP-03835	c 06	N71-23499 *	NASA-CASE-XNP-09227	c 15	N69-24319 * #
NASA-CASE-XNP-00952	c 10	N71-23271 *	NASA-CASE-XNP-03853	c 23	N71-21882 *	NASA-CASE-XNP-09228	c 09	N69-27500 * #
NASA-CASE-XNP-01012	c 08	N71-28925 *	NASA-CASE-XNP-03878	c 26	N75-27127 *	NASA-CASE-XNP-09450	c 10	N71-18723 *
NASA-CASE-XNP-01020	c 03	N71-12260 *	NASA-CASE-XNP-03914	c 21	N71-10771 *	NASA-CASE-XNP-09451	c 06	N71-26754 *
NASA-CASE-XNP-01056	c 14	N71-23041 *	NASA-CASE-XNP-03916	c 09	N71-28810 *	NASA-CASE-XNP-09452	c 15	N69-27504 * #
NASA-CASE-XNP-01057	c 07	N71-15907 *	NASA-CASE-XNP-03918	c 14	N71-23087 *	NASA-CASE-XNP-09453	c 08	N71-19420 *
NASA-CASE-XNP-01058	c 09	N71-12540 *	NASA-CASE-XNP-03930	c 14	N69-24331 * #	NASA-CASE-XNP-09461	c 28	N72-23809 *
NASA-CASE-XNP-01059	c 23	N71-21821 *	NASA-CASE-XNP-03972	c 15	N71-23048 *	NASA-CASE-XNP-09462	c 14	N71-17584 *
NASA-CASE-XNP-01068	c 10	N71-28739 *	NASA-CASE-XNP-04023	c 06	N71-28808 *	NASA-CASE-XNP-09469	c 24	N71-25555 *
NASA-CASE-XNP-01104	c 28	N70-39931 *	NASA-CASE-XNP-04067	c 08	N71-22707 *	NASA-CASE-XNP-09572	c 14	N71-15621 *
NASA-CASE-XNP-01107	c 10	N71-28859 *	NASA-CASE-XNP-04111	c 14	N71-15622 *	NASA-CASE-XNP-09698	c 15	N71-18580 *
NASA-CASE-XNP-01152	c 15	N70-41811 *	NASA-CASE-XNP-04124	c 28	N71-21822 *	NASA-CASE-XNP-09699	c 06	N71-24607 *
NASA-CASE-XNP-01153	c 32	N71-17645 *	NASA-CASE-XNP-04148	c 17	N71-24830 *	NASA-CASE-XNP-09701	c 14	N71-26475 *
NASA-CASE-XNP-01185	c 26	N73-28710 *	NASA-CASE-XNP-04161	c 14	N71-15599 *	NASA-CASE-XNP-09702	c 15	N71-17654 *
NASA-CASE-XNP-01187	c 15	N73-28516 *	NASA-CASE-XNP-04162-1	c 08	N70-34675 * #	NASA-CASE-XNP-09704	c 12	N71-18615 *
NASA-CASE-XNP-01188	c 15	N73-32361 *	NASA-CASE-XNP-04167-2	c 25	N72-24753 *	NASA-CASE-XNP-09744	c 27	N71-16392 *
NASA-CASE-XNP-01193	c 10	N71-16057 *	NASA-CASE-XNP-04167-3	c 36	N77-19416 *	NASA-CASE-XNP-09750	c 14	N69-39937 * #
NASA-CASE-XNP-01263-2	c 15	N71-26312 *	NASA-CASE-XNP-04180	c 07	N69-39736 * #	NASA-CASE-XNP-09752	c 14	N69-21541 * #
NASA-CASE-XNP-01296	c 33	N75-27250 *	NASA-CASE-XNP-04183	c 09	N69-24329 * #	NASA-CASE-XNP-09755	c 46	N74-23069 *
NASA-CASE-XNP-01306-2	c 09	N71-24596 *	NASA-CASE-XNP-04231	c 14	N73-32325 *	NASA-CASE-XNP-09759	c 08	N71-24891 *
NASA-CASE-XNP-01306	c 07	N71-20814 *	NASA-CASE-XNP-04262-2	c 17	N71-26773 *	NASA-CASE-XNP-09763	c 14	N71-20461 *
NASA-CASE-XNP-01307	c 21	N70-41856 *	NASA-CASE-XNP-04264	c 03	N69-21337 * #	NASA-CASE-XNP-09768	c 09	N71-12516 *
NASA-CASE-XNP-01310	c 33	N71-28852 *	NASA-CASE-XNP-04338	c 17	N71-23046 *	NASA-CASE-XNP-09770-2	c 15	N72-22483 *
			NASA-CASE-XNP-04339	c 17	N71-29137 *	NASA-CASE-XNP-09770-3	c 11	N71-27036 *

NASA-CASE-XNP-09770

REPORT NUMBER INDEX

NASA-CASE-XNP-09770	c 15	N71-20440 *	US-PATENT-APPL-SN-035401	c 31	N87-25495 *	US-PATENT-APPL-SN-079320	c 27	N87-29672 *
NASA-CASE-XNP-09771	c 09	N71-24841 *	US-PATENT-APPL-SN-035401	c 54	N91-14723 *	US-PATENT-APPL-SN-079913	c 05	N82-28279 *
NASA-CASE-XNP-09775	c 09	N71-20445 *	US-PATENT-APPL-SN-035401	c 54	N91-14724 *	US-PATENT-APPL-SN-082766	c 09	N90-20096 *
NASA-CASE-XNP-09776	c 09	N69-39929 *	US-PATENT-APPL-SN-035401	c 54	N91-26747 *	US-PATENT-APPL-SN-082766	c 04	N91-31120 *
NASA-CASE-XNP-09785	c 08	N69-21928 *	US-PATENT-APPL-SN-035430	c 27	N87-25474 *	US-PATENT-APPL-SN-084062	c 35	N90-20351 *
NASA-CASE-XNP-09802	c 33	N71-15641 *	US-PATENT-APPL-SN-035430	c 25	N92-16043 *	US-PATENT-APPL-SN-084770	c 32	N88-29076 *
NASA-CASE-XNP-09808	c 09	N71-12518 *	US-PATENT-APPL-SN-037066	c 25	N81-14016 *	US-PATENT-APPL-SN-085833	c 62	N91-14772 *
NASA-CASE-XNP-09830	c 14	N71-26266 *	US-PATENT-APPL-SN-037072	c 31	N81-33319 *	US-PATENT-APPL-SN-087281	c 52	N90-20616 *
NASA-CASE-XNP-09832	c 30	N71-23723 *	US-PATENT-APPL-SN-037194	c 37	N84-28081 *	US-PATENT-APPL-SN-087282	c 31	N89-12785 *
NASA-CASE-XNP-10007-1	c 46	N74-23068 *	US-PATENT-APPL-SN-037560	c 74	N81-29963 *	US-PATENT-APPL-SN-087283	c 71	N89-13236 *
NASA-CASE-XNP-10475	c 15	N71-24679 *	US-PATENT-APPL-SN-038550	c 33	N83-18996 *	US-PATENT-APPL-SN-087358	c 51	N91-14703 *
NASA-CASE-XNP-10830	c 07	N71-11281 *	US-PATENT-APPL-SN-038560	c 27	N89-29538 *	US-PATENT-APPL-SN-087359	c 35	N89-14422 *
NASA-CASE-XNP-10843	c 07	N71-11267 *	US-PATENT-APPL-SN-038980	c 07	N81-14999 *	US-PATENT-APPL-SN-087375	c 27	N90-23545 *
NASA-CASE-XNP-10854	c 10	N71-26331 *	US-PATENT-APPL-SN-039031	c 32	N80-28578 *	US-PATENT-APPL-SN-087375	c 23	N91-14419 *
			US-PATENT-APPL-SN-041141	c 36	N82-13415 *	US-PATENT-APPL-SN-087376	c 27	N91-14489 *
NASA-TM-76884	c 24	N85-25436 *	US-PATENT-APPL-SN-041142	c 32	N81-15179 *	US-PATENT-APPL-SN-088663	c 28	N82-18401 *
			US-PATENT-APPL-SN-041143	c 60	N83-25378 *	US-PATENT-APPL-SN-089779	c 26	N81-25188 *
US-Patent-4,884,770	c 16	N90-22584 *	US-PATENT-APPL-SN-041145	c 25	N82-12166 *	US-PATENT-APPL-SN-090584	c 74	N81-19896 *
US-Patent-4,885,633	c 35	N90-22770 *	US-PATENT-APPL-SN-041164	c 33	N81-19392 *	US-PATENT-APPL-SN-090874	c 25	N90-20180 *
US-Patent-4,886,222	c 35	N90-22769 *	US-PATENT-APPL-SN-041389	c 35	N91-21494 *	US-PATENT-APPL-SN-0914	c 28	N70-38711 *
US-Patent-4,886,646	c 76	N90-23242 *	US-PATENT-APPL-SN-043911	c 05	N82-26277 *	US-PATENT-APPL-SN-092141	c 27	N81-29229 *
US-Patent-4,890,036	c 33	N90-22724 *	US-PATENT-APPL-SN-043912	c 43	N81-17499 *	US-PATENT-APPL-SN-092142	c 27	N82-11206 *
			US-PATENT-APPL-SN-043913	c 54	N81-27806 *	US-PATENT-APPL-SN-092143	c 32	N82-18443 *
US-PATENT-APPL-SN-000692	c 23	N89-12667 *	US-PATENT-APPL-SN-043941	c 44	N81-19558 *	US-PATENT-APPL-SN-092145	c 37	N82-12442 *
US-PATENT-APPL-SN-003676	c 02	N88-23759 *	US-PATENT-APPL-SN-043942	c 06	N82-16075 *	US-PATENT-APPL-SN-093417	c 37	N90-17154 *
US-PATENT-APPL-SN-003693	c 52	N81-14612 *	US-PATENT-APPL-SN-043943	c 33	N82-24419 *	US-PATENT-APPL-SN-093714	c 44	N81-29525 *
US-PATENT-APPL-SN-004282	c 60	N88-29310 *	US-PATENT-APPL-SN-043944	c 24	N82-24296 *	US-PATENT-APPL-SN-095217	c 74	N81-19898 *
US-PATENT-APPL-SN-004304	c 05	N91-14345 *	US-PATENT-APPL-SN-043945	c 47	N82-24779 *	US-PATENT-APPL-SN-096255	c 37	N80-18400 *
US-PATENT-APPL-SN-006952	c 27	N81-14077 *	US-PATENT-APPL-SN-044180	c 35	N87-25558 *	US-PATENT-APPL-SN-096255	c 37	N82-19540 *
US-PATENT-APPL-SN-007083	c 26	N80-32484 *	US-PATENT-APPL-SN-044181	c 37	N88-23980 *	US-PATENT-APPL-SN-096257	c 37	N82-24490 *
US-PATENT-APPL-SN-008199	c 25	N87-23713 *	US-PATENT-APPL-SN-044183	c 27	N89-29539 *	US-PATENT-APPL-SN-098568	c 33	N82-11357 *
US-PATENT-APPL-SN-008207	c 32	N80-23524 *	US-PATENT-APPL-SN-044431	c 33	N81-27395 *	US-PATENT-APPL-SN-098569	c 44	N82-16474 *
US-PATENT-APPL-SN-008208	c 37	N81-17432 *	US-PATENT-APPL-SN-044432	c 52	N81-20703 *	US-PATENT-APPL-SN-098570	c 44	N82-18686 *
US-PATENT-APPL-SN-008209	c 32	N81-25278 *	US-PATENT-APPL-SN-045743	c 35	N88-24927 *	US-PATENT-APPL-SN-100611	c 37	N82-32732 *
US-PATENT-APPL-SN-008210	c 05	N81-26114 *	US-PATENT-APPL-SN-045984	c 36	N88-24958 *	US-PATENT-APPL-SN-100637	c 37	N75-18574 *
US-PATENT-APPL-SN-008211	c 74	N81-17887 *	US-PATENT-APPL-SN-046341	c 20	N89-25279 *	US-PATENT-APPL-SN-100639	c 14	N72-32452 *
US-PATENT-APPL-SN-008212	c 44	N80-24741 *	US-PATENT-APPL-SN-046739	c 54	N81-24724 *	US-PATENT-APPL-SN-100774	c 06	N72-25151 *
US-PATENT-APPL-SN-008242	c 27	N87-23737 *	US-PATENT-APPL-SN-051269	c 33	N81-24338 *	US-PATENT-APPL-SN-100774	c 06	N73-32030 *
US-PATENT-APPL-SN-008895	c 08	N88-23809 *	US-PATENT-APPL-SN-051270	c 32	N80-32604 *	US-PATENT-APPL-SN-100996	c 08	N73-13187 *
US-PATENT-APPL-SN-009886	c 31	N80-32583 *	US-PATENT-APPL-SN-051271	c 33	N81-26359 *	US-PATENT-APPL-SN-101029	c 31	N70-38676 *
US-PATENT-APPL-SN-009887	c 28	N81-14103 *	US-PATENT-APPL-SN-051274	c 34	N81-26402 *	US-PATENT-APPL-SN-101214	c 14	N73-26430 *
US-PATENT-APPL-SN-009888	c 37	N81-14320 *	US-PATENT-APPL-SN-051275	c 44	N82-24640 *	US-PATENT-APPL-SN-101354	c 10	N73-16205 *
US-PATENT-APPL-SN-009889	c 33	N81-27396 *	US-PATENT-APPL-SN-051276	c 33	N81-33404 *	US-PATENT-APPL-SN-101611	c 33	N72-20915 *
US-PATENT-APPL-SN-010942	c 37	N88-14362 *	US-PATENT-APPL-SN-052940	c 37	N89-13786 *	US-PATENT-APPL-SN-102001	c 36	N82-16396 *
US-PATENT-APPL-SN-010943	c 35	N89-12841 *	US-PATENT-APPL-SN-052941	c 35	N87-25561 *	US-PATENT-APPL-SN-102002	c 18	N81-29152 *
US-PATENT-APPL-SN-010949	c 35	N90-23713 *	US-PATENT-APPL-SN-053566	c 09	N82-24212 *	US-PATENT-APPL-SN-102003	c 26	N82-29415 *
US-PATENT-APPL-SN-010950	c 37	N88-14361 *	US-PATENT-APPL-SN-053569	c 35	N81-19426 *	US-PATENT-APPL-SN-102003	c 26	N82-30371 *
US-PATENT-APPL-SN-011693	c 27	N87-24575 *	US-PATENT-APPL-SN-053571	c 31	N81-19343 *	US-PATENT-APPL-SN-102004	c 37	N81-26447 *
US-PATENT-APPL-SN-011737	c 27	N81-14078 *	US-PATENT-APPL-SN-053572	c 32	N82-23376 *	US-PATENT-APPL-SN-102412	c 25	N72-33696 *
US-PATENT-APPL-SN-013801	c 05	N88-23765 *	US-PATENT-APPL-SN-053652	c 33	N82-18494 *	US-PATENT-APPL-SN-102593	c 37	N82-16408 *
US-PATENT-APPL-SN-013802	c 35	N88-23967 *	US-PATENT-APPL-SN-054501	c 23	N82-16174 *	US-PATENT-APPL-SN-102705	c 35	N88-29150 *
US-PATENT-APPL-SN-013803	c 33	N88-24862 *	US-PATENT-APPL-SN-054980	c 35	N88-29149 *	US-PATENT-APPL-SN-102934	c 76	N92-21499 *
US-PATENT-APPL-SN-014663	c 31	N81-25259 *	US-PATENT-APPL-SN-054982	c 23	N90-23475 *	US-PATENT-APPL-SN-103077	c 25	N72-32688 *
US-PATENT-APPL-SN-014664	c 44	N81-14389 *	US-PATENT-APPL-SN-054983	c 37	N87-25585 *	US-PATENT-APPL-SN-103078	c 15	N73-12486 *
US-PATENT-APPL-SN-015983	c 02	N80-28300 *	US-PATENT-APPL-SN-054985	c 23	N90-20133 *	US-PATENT-APPL-SN-103091	c 37	N74-23070 *
US-PATENT-APPL-SN-015995	c 08	N81-26152 *	US-PATENT-APPL-SN-055809	c 33	N92-16197 *	US-PATENT-APPL-SN-103229	c 14	N72-22439 *
US-PATENT-APPL-SN-015996	c 08	N81-24106 *	US-PATENT-APPL-SN-056930	c 37	N88-23979 *	US-PATENT-APPL-SN-103230	c 15	N73-14668 *
US-PATENT-APPL-SN-017885	c 32	N79-19195 *	US-PATENT-APPL-SN-057465	c 37	N81-17433 *	US-PATENT-APPL-SN-10329	c 09	N72-25251 *
US-PATENT-APPL-SN-017886	c 33	N81-33405 *	US-PATENT-APPL-SN-057466	c 71	N81-15767 *	US-PATENT-APPL-SN-103551	c 31	N73-14854 *
US-PATENT-APPL-SN-017887	c 33	N81-26358 *	US-PATENT-APPL-SN-057526	c 52	N81-25662 *	US-PATENT-APPL-SN-103836	c 37	N81-24443 *
US-PATENT-APPL-SN-017888	c 51	N80-16715 *	US-PATENT-APPL-SN-060182	c 27	N89-12741 *	US-PATENT-APPL-SN-104047	c 15	N72-31483 *
US-PATENT-APPL-SN-017889	c 02	N84-28732 *	US-PATENT-APPL-SN-060196	c 32	N89-11961 *	US-PATENT-APPL-SN-104048	c 31	N73-14855 *
US-PATENT-APPL-SN-017890	c 33	N81-15192 *	US-PATENT-APPL-SN-060200	c 09	N88-28939 *	US-PATENT-APPL-SN-104187	c 14	N70-36618 *
US-PATENT-APPL-SN-019541	c 02	N81-14968 *	US-PATENT-APPL-SN-060201	c 62	N87-25803 *	US-PATENT-APPL-SN-104188	c 09	N70-34819 *
US-PATENT-APPL-SN-021100	c 72	N88-24253 *	US-PATENT-APPL-SN-060435	c 44	N81-24520 *	US-PATENT-APPL-SN-104346	c 14	N73-28488 *
US-PATENT-APPL-SN-021569	c 35	N89-15379 *	US-PATENT-APPL-SN-060449	c 07	N82-32366 *	US-PATENT-APPL-SN-104884	c 15	N72-33476 *
US-PATENT-APPL-SN-022298	c 31	N89-12786 *	US-PATENT-APPL-SN-061327	c 32	N83-13323 *	US-PATENT-APPL-SN-104885	c 14	N73-24472 *
US-PATENT-APPL-SN-023436	c 07	N80-32392 *	US-PATENT-APPL-SN-061555	c 44	N81-29524 *	US-PATENT-APPL-SN-105518	c 23	N71-15978 *
US-PATENT-APPL-SN-023437	c 62	N81-24779 *	US-PATENT-APPL-SN-061556	c 35	N81-19427 *	US-PATENT-APPL-SN-105841	c 18	N89-28553 *
US-PATENT-APPL-SN-023439	c 37	N81-27519 *	US-PATENT-APPL-SN-061822	c 74	N83-19597 *	US-PATENT-APPL-SN-105846	c 24	N91-25200 *
US-PATENT-APPL-SN-023484	c 33	N81-20352 *	US-PATENT-APPL-SN-065676	c 35	N80-18364 *	US-PATENT-APPL-SN-105847	c 31	N89-14351 *
US-PATENT-APPL-SN-023485	c 33	N82-24418 *	US-PATENT-APPL-SN-065676	c 44	N81-12542 *	US-PATENT-APPL-SN-106106	c 91	N74-13130 *
US-PATENT-APPL-SN-023501	c 26	N80-28492 *	US-PATENT-APPL-SN-066450	c 29	N87-25489 *	US-PATENT-APPL-SN-106118	c 32	N80-16261 *
US-PATENT-APPL-SN-025039	c 37	N88-14360 *	US-PATENT-APPL-SN-067595	c 08	N82-24205 *	US-PATENT-APPL-SN-106119	c 35	N82-15381 *
US-PATENT-APPL-SN-025162	c 35	N81-14287 *	US-PATENT-APPL-SN-067596	c 51	N81-28698 *	US-PATENT-APPL-SN-106135	c 28	N70-34294 *
US-PATENT-APPL-SN-025163	c 74	N80-33210 *	US-PATENT-APPL-SN-067846	c 34	N89-14392 *	US-PATENT-APPL-SN-106136	c 33	N82-26572 *
US-PATENT-APPL-SN-025301	c 07	N82-26293 *	US-PATENT-APPL-SN-067846	c 31	N90-21216 *	US-PATENT-APPL-SN-106188	c 27	N80-16163 *
US-PATENT-APPL-SN-027557	c 27	N81-19296 *	US-PATENT-APPL-SN-069485	c 33	N82-24420 *	US-PATENT-APPL-SN-106192	c 34	N83-28356 *
US-PATENT-APPL-SN-027558	c 36	N81-24422 *	US-PATENT-APPL-SN-070366	c 35	N82-11431 *	US-PATENT-APPL-SN-106424	c 17	N73-24569 *
US-PATENT-APPL-SN-027559	c 44	N81-17518 *	US-PATENT-APPL-SN-070771	c 27	N81-17260 *	US-PATENT-APPL-SN-106465	c 30	N73-12884 *
US-PATENT-APPL-SN-027981	c 76	N87-25868 *	US-PATENT-APPL-SN-070774	c 33	N82-26571 *	US-PATENT-APPL-SN-107298	c 32	N73-13921 *
US-PATENT-APPL-SN-028300	c 27	N81-17259 *	US-PATENT-APPL-SN-071686	c 27	N90-16950 *	US-PATENT-APPL-SN-107376	c 15	N73-25513 *
US-PATENT-APPL-SN-028301	c 27	N81-17262 *	US-PATENT-APPL-SN-072857	c 24	N82-32417 *	US-PATENT-APPL-SN-107379	c 10	N72-33230 *
US-PATENT-APPL-SN-028301	c 27	N81-24256 *	US-PATENT-APPL-SN-073477	c 36	N82-32712 *	US-PATENT-APPL-SN-107380	c 28	N73-13773 *
US-PATENT-APPL-SN-028301	c 27	N82-24338 *	US-PATENT-APPL-SN-073539	c 18	N87-29586 *	US-PATENT-APPL-SN-107659	c 23	N73-20741 *
US-PATENT-APPL-SN-028831	c 27	N89-14337 *	US-PATENT-APPL-SN-073541	c 33	N90-19492 *	US-PATENT-APPL-SN-107866	c 17	N70-36616 *
US-PATENT-APPL-SN-028832	c 05	N89-11738 *	US-PATENT-APPL-SN-073579	c 33	N82-24415 *	US-PATENT-APPL-SN-107870	c 15	N70-36411 *
US-PATENT-APPL-SN-030831	c 25	N82-23282 *	US-PATENT-APPL-SN-074792	c 35	N88-30108 *	US-PATENT-APPL-SN-108107	c 37	N82-18601 *
US-PATENT-APPL-SN-032305	c 15	N82-24272 *	US-PATENT-APPL-SN-076643	c 32	N81-29308 *	US-PATENT-APPL-SN-108112	c 28	N70-40367 *
US-PATENT-APPL-SN-032307	c 44	N81-24519 *	US-PATENT-APPL-SN-076955	c 16	N90-22584 *	US-PATENT-APPL-SN-10827	c 14	N72-28436 *
US-PATENT-APPL-SN-032679	c 34	N88-23958 *	US-PATENT-APPL-SN-076956	c 35	N88-29151 *	US-PATENT-APPL-SN-108331	c 26	N89-14303 *
US-PATENT-APPL-SN-032685	c 35	N87-25555 *	US-PATENT-APPL-SN-078521	c 32	N81-14186 *	US-PATENT-APPL-SN-108810	c 33	N77-22386 *
US-PATENT-APPL-SN-032818	c 37	N88-29180 *	US-PATENT-APPL-SN-078611	c 04	N81-21047 *	US-PATENT-APPL-SN-108824	c 31	N73-13898 *
US-PATENT-APPL-SN-032819	c 33	N89-28713 *	US-PATENT-APPL-SN-078612	c 46	N82-12685 *	US-PATENT-APPL-SN-109789	c 09	N70-34596 *
US-PATENT-APPL-SN-034104	c 08	N81-19130 *	US-PATENT-APPL					

US-PATENT-APPL-SN-110591	c 15	N70-39896 *	US-PATENT-APPL-SN-129798	c 27	N81-27271 *	US-PATENT-APPL-SN-147996	c 28	N73-24784 *
US-PATENT-APPL-SN-111436	c 33	N82-26569 *	US-PATENT-APPL-SN-129799	c 27	N82-18389 *	US-PATENT-APPL-SN-147997	c 15	N72-33477 *
US-PATENT-APPL-SN-111438	c 35	N81-29407 *	US-PATENT-APPL-SN-130058	c 33	N90-22724 *	US-PATENT-APPL-SN-148001	c 14	N70-34298 *
US-PATENT-APPL-SN-111439	c 74	N81-24900 *	US-PATENT-APPL-SN-130353	c 31	N73-14853 *	US-PATENT-APPL-SN-148756	c 15	N73-13466 *
US-PATENT-APPL-SN-111998	c 21	N73-30640 *	US-PATENT-APPL-SN-130496	c 36	N83-10417 *	US-PATENT-APPL-SN-149283	c 35	N74-17153 *
US-PATENT-APPL-SN-11220	c 14	N73-30389 *	US-PATENT-APPL-SN-132364	c 07	N83-36029 *	US-PATENT-APPL-SN-149526	c 52	N82-33996 *
US-PATENT-APPL-SN-112366	c 06	N72-10138 *	US-PATENT-APPL-SN-13266	c 05	N72-23085 *	US-PATENT-APPL-SN-149821	c 31	N88-23917 *
US-PATENT-APPL-SN-112988	c 07	N72-32169 *	US-PATENT-APPL-SN-133412	c 33	N89-29681 *	US-PATENT-APPL-SN-149822	c 35	N89-26202 *
US-PATENT-APPL-SN-112998	c 14	N73-12445 *	US-PATENT-APPL-SN-133413	c 27	N90-23544 *	US-PATENT-APPL-SN-149830	c 37	N88-23974 *
US-PATENT-APPL-SN-112999	c 23	N72-25619 *	US-PATENT-APPL-SN-134479	c 14	N70-33179 *	US-PATENT-APPL-SN-149983	c 31	N72-21893 *
US-PATENT-APPL-SN-112999	c 32	N79-19186 *	US-PATENT-APPL-SN-134481	c 11	N70-34815 *	US-PATENT-APPL-SN-150040	c 36	N82-29589 *
US-PATENT-APPL-SN-113014	c 27	N81-24257 *	US-PATENT-APPL-SN-134567	c 14	N73-16484 *	US-PATENT-APPL-SN-150115	c 44	N82-16475 *
US-PATENT-APPL-SN-113015	c 37	N82-24491 *	US-PATENT-APPL-SN-134568	c 06	N72-31141 *	US-PATENT-APPL-SN-150169	c 25	N91-31258 *
US-PATENT-APPL-SN-113954	c 33	N90-23636 *	US-PATENT-APPL-SN-134571	c 21	N73-13644 *	US-PATENT-APPL-SN-15019	c 15	N72-17455 *
US-PATENT-APPL-SN-113956	c 60	N90-21527 *	US-PATENT-APPL-SN-134573	c 09	N72-25257 *	US-PATENT-APPL-SN-15020	c 14	N70-34697 *
US-PATENT-APPL-SN-114772	c 04	N76-26175 *	US-PATENT-APPL-SN-134619	c 35	N79-33449 *	US-PATENT-APPL-SN-150215	c 33	N73-25952 *
US-PATENT-APPL-SN-114846	c 14	N73-12444 *	US-PATENT-APPL-SN-134658	c 15	N73-28515 *	US-PATENT-APPL-SN-15022	c 15	N72-21465 *
US-PATENT-APPL-SN-114847	c 15	N72-28496 *	US-PATENT-APPL-SN-134782	c 09	N70-36494 *	US-PATENT-APPL-SN-15023	c 15	N70-34699 *
US-PATENT-APPL-SN-114848	c 11	N72-23215 *	US-PATENT-APPL-SN-134855	c 44	N81-24521 *	US-PATENT-APPL-SN-15024	c 09	N72-21245 *
US-PATENT-APPL-SN-114849	c 09	N72-27227 *	US-PATENT-APPL-SN-135038	c 33	N83-31954 *	US-PATENT-APPL-SN-15025	c 03	N72-20033 *
US-PATENT-APPL-SN-114873	c 09	N73-28083 *	US-PATENT-APPL-SN-135039	c 33	N82-24416 *	US-PATENT-APPL-SN-150690	c 35	N79-33450 *
US-PATENT-APPL-SN-115082	c 18	N73-13562 *	US-PATENT-APPL-SN-135040	c 09	N82-11088 *	US-PATENT-APPL-SN-151112	c 15	N70-34814 *
US-PATENT-APPL-SN-115083	c 07	N73-25160 *	US-PATENT-APPL-SN-135056	c 37	N81-33483 *	US-PATENT-APPL-SN-151114	c 31	N70-34176 *
US-PATENT-APPL-SN-115134	c 06	N73-13128 *	US-PATENT-APPL-SN-135057	c 08	N82-32373 *	US-PATENT-APPL-SN-151411	c 07	N73-26118 *
US-PATENT-APPL-SN-115536	c 33	N82-24417 *	US-PATENT-APPL-SN-135058	c 25	N82-26396 *	US-PATENT-APPL-SN-151412	c 09	N73-32112 *
US-PATENT-APPL-SN-115944	c 03	N71-34044 *	US-PATENT-APPL-SN-135120	c 37	N88-23973 *	US-PATENT-APPL-SN-151413	c 14	N73-12447 *
US-PATENT-APPL-SN-116777	c 09	N73-19235 *	US-PATENT-APPL-SN-136006	c 09	N72-28225 *	US-PATENT-APPL-SN-151598	c 03	N70-34134 *
US-PATENT-APPL-SN-116778	c 09	N72-33205 *	US-PATENT-APPL-SN-136007	c 09	N71-34212 *	US-PATENT-APPL-SN-15222	c 18	N72-25539 *
US-PATENT-APPL-SN-116786	c 07	N72-25172 *	US-PATENT-APPL-SN-136008	c 27	N74-13270 *	US-PATENT-APPL-SN-152328	c 02	N74-20646 *
US-PATENT-APPL-SN-116790	c 14	N73-30388 *	US-PATENT-APPL-SN-136085	c 17	N73-12547 *	US-PATENT-APPL-SN-152849	c 15	N73-30457 *
US-PATENT-APPL-SN-116810	c 33	N88-26596 *	US-PATENT-APPL-SN-136086	c 15	N73-19457 *	US-PATENT-APPL-SN-153240	c 33	N86-19515 *
US-PATENT-APPL-SN-116811	c 35	N90-21358 *	US-PATENT-APPL-SN-136253	c 27	N74-12814 *	US-PATENT-APPL-SN-153245	c 74	N83-29032 *
US-PATENT-APPL-SN-117575	c 08	N73-12177 *	US-PATENT-APPL-SN-136652	c 07	N84-24577 *	US-PATENT-APPL-SN-153246	c 52	N82-29863 *
US-PATENT-APPL-SN-118169	c 14	N70-35220 *	US-PATENT-APPL-SN-136660	c 31	N83-34073 *	US-PATENT-APPL-SN-153266	c 02	N70-38011 *
US-PATENT-APPL-SN-118200	c 15	N70-34247 *	US-PATENT-APPL-SN-137391	c 36	N75-31426 *	US-PATENT-APPL-SN-153542	c 28	N73-32606 *
US-PATENT-APPL-SN-118202	c 28	N70-38710 *	US-PATENT-APPL-SN-137912	c 06	N72-21105 *	US-PATENT-APPL-SN-153543	c 08	N73-26176 *
US-PATENT-APPL-SN-118203	c 14	N70-38602 *	US-PATENT-APPL-SN-138227	c 26	N72-27784 *	US-PATENT-APPL-SN-153624	c 37	N75-27376 *
US-PATENT-APPL-SN-118269	c 33	N73-26958 *	US-PATENT-APPL-SN-138229	c 15	N72-32487 *	US-PATENT-APPL-SN-154094	c 33	N72-27959 *
US-PATENT-APPL-SN-118270	c 09	N72-25260 *	US-PATENT-APPL-SN-138230	c 32	N73-20740 *	US-PATENT-APPL-SN-154663	c 02	N81-26073 *
US-PATENT-APPL-SN-11853	c 15	N71-28951 *	US-PATENT-APPL-SN-138944	c 37	N82-26672 *	US-PATENT-APPL-SN-154663	c 09	N82-29330 *
US-PATENT-APPL-SN-118992	c 37	N88-29181 *	US-PATENT-APPL-SN-139006	c 09	N70-38604 *	US-PATENT-APPL-SN-154711	c 33	N88-24863 *
US-PATENT-APPL-SN-118993	c 52	N90-21519 *	US-PATENT-APPL-SN-139007	c 28	N70-37245 *	US-PATENT-APPL-SN-154712	c 37	N88-24969 *
US-PATENT-APPL-SN-118993	c 52	N92-11621 *	US-PATENT-APPL-SN-139012	c 03	N70-38713 *	US-PATENT-APPL-SN-154713	c 72	N89-29169 *
US-PATENT-APPL-SN-118995	c 32	N89-25363 *	US-PATENT-APPL-SN-139094	c 05	N73-32011 *	US-PATENT-APPL-SN-154716	c 74	N88-25302 *
US-PATENT-APPL-SN-119282	c 03	N72-23048 *	US-PATENT-APPL-SN-139250	c 04	N73-27052 *	US-PATENT-APPL-SN-154718	c 74	N88-25301 *
US-PATENT-APPL-SN-119334	c 31	N88-29052 *	US-PATENT-APPL-SN-139528	c 03	N72-25020 *	US-PATENT-APPL-SN-154725	c 37	N82-24493 *
US-PATENT-APPL-SN-119335	c 37	N82-24494 *	US-PATENT-APPL-SN-139596	c 33	N77-13315 *	US-PATENT-APPL-SN-154726	c 25	N81-25159 *
US-PATENT-APPL-SN-119336	c 33	N82-24421 *	US-PATENT-APPL-SN-140185	c 76	N91-21911 *	US-PATENT-APPL-SN-154930	c 44	N76-14600 *
US-PATENT-APPL-SN-119337	c 24	N81-33235 *	US-PATENT-APPL-SN-140185	c 74	N91-31950 *	US-PATENT-APPL-SN-154933	c 11	N73-25463 *
US-PATENT-APPL-SN-119339	c 36	N82-28616 *	US-PATENT-APPL-SN-140439	c 33	N75-19518 *	US-PATENT-APPL-SN-154935	c 14	N72-27262 *
US-PATENT-APPL-SN-119340	c 35	N82-11432 *	US-PATENT-APPL-SN-140443	c 09	N70-35219 *	US-PATENT-APPL-SN-155565	c 08	N73-25206 *
US-PATENT-APPL-SN-120241	c 15	N73-24513 *	US-PATENT-APPL-SN-140509	c 09	N70-35382 *	US-PATENT-APPL-SN-155584	c 09	N70-40123 *
US-PATENT-APPL-SN-120795	c 07	N70-40202 *	US-PATENT-APPL-SN-140946	c 18	N73-26572 *	US-PATENT-APPL-SN-155595	c 26	N73-28710 *
US-PATENT-APPL-SN-120797	c 14	N70-36824 *	US-PATENT-APPL-SN-140946	c 27	N74-27037 *	US-PATENT-APPL-SN-155596	c 15	N73-32361 *
US-PATENT-APPL-SN-120803	c 08	N70-34743 *	US-PATENT-APPL-SN-141220	c 33	N70-37979 *	US-PATENT-APPL-SN-155598	c 15	N73-28516 *
US-PATENT-APPL-SN-121328	c 23	N72-11568 *	US-PATENT-APPL-SN-142583	c 37	N79-33469 *	US-PATENT-APPL-SN-156059	c 37	N90-19602 *
US-PATENT-APPL-SN-122740	c 35	N88-23959 *	US-PATENT-APPL-SN-142662	c 23	N73-13661 *	US-PATENT-APPL-SN-156393	c 35	N88-24941 *
US-PATENT-APPL-SN-122965	c 35	N81-26431 *	US-PATENT-APPL-SN-142719	c 14	N73-14429 *	US-PATENT-APPL-SN-156518	c 74	N89-25689 *
US-PATENT-APPL-SN-122966	c 33	N82-26568 *	US-PATENT-APPL-SN-143078	c 08	N72-33172 *	US-PATENT-APPL-SN-156724	c 21	N73-13643 *
US-PATENT-APPL-SN-122967	c 24	N81-26179 *	US-PATENT-APPL-SN-143434	c 60	N90-21525 *	US-PATENT-APPL-SN-156725	c 14	N73-27377 *
US-PATENT-APPL-SN-123253	c 10	N73-12244 *	US-PATENT-APPL-SN-143436	c 35	N89-14423 *	US-PATENT-APPL-SN-156778	c 17	N72-28535 *
US-PATENT-APPL-SN-123597	c 21	N70-34297 *	US-PATENT-APPL-SN-143508	c 33	N74-12913 *	US-PATENT-APPL-SN-156790	c 25	N82-29371 *
US-PATENT-APPL-SN-124909	c 14	N73-16483 *	US-PATENT-APPL-SN-144139	c 11	N73-26238 *	US-PATENT-APPL-SN-157150	c 37	N84-33808 *
US-PATENT-APPL-SN-125021	c 74	N89-14077 *	US-PATENT-APPL-SN-144803	c 11	N70-34844 *	US-PATENT-APPL-SN-158530	c 27	N83-19900 *
US-PATENT-APPL-SN-125234	c 07	N73-16121 *	US-PATENT-APPL-SN-144804	c 14	N70-39898 *	US-PATENT-APPL-SN-158914	c 11	N70-36913 *
US-PATENT-APPL-SN-125235	c 51	N77-25769 *	US-PATENT-APPL-SN-14488	c 09	N70-38995 *	US-PATENT-APPL-SN-158916	c 05	N70-41819 *
US-PATENT-APPL-SN-125236	c 14	N73-26431 *	US-PATENT-APPL-SN-144958	c 09	N72-20206 *	US-PATENT-APPL-SN-159071	c 25	N90-23497 *
US-PATENT-APPL-SN-125666	c 32	N89-28676 *	US-PATENT-APPL-SN-145007	c 18	N70-36400 *	US-PATENT-APPL-SN-159071	c 23	N91-17141 *
US-PATENT-APPL-SN-125676	c 35	N90-17118 *	US-PATENT-APPL-SN-145026	c 06	N72-25152 *	US-PATENT-APPL-SN-159072	c 18	N89-25266 *
US-PATENT-APPL-SN-125677	c 32	N90-20280 *	US-PATENT-APPL-SN-145027	c 06	N73-32029 *	US-PATENT-APPL-SN-159613	c 35	N88-24943 *
US-PATENT-APPL-SN-125678	c 38	N90-23756 *	US-PATENT-APPL-SN-145107	c 27	N82-16238 *	US-PATENT-APPL-SN-159613	c 36	N90-17132 *
US-PATENT-APPL-SN-125979	c 09	N72-25255 *	US-PATENT-APPL-SN-145206	c 32	N82-11336 *	US-PATENT-APPL-SN-159804	c 11	N70-38196 *
US-PATENT-APPL-SN-126063	c 44	N83-10501 *	US-PATENT-APPL-SN-145207	c 25	N82-28368 *	US-PATENT-APPL-SN-159857	c 05	N73-26072 *
US-PATENT-APPL-SN-126064	c 33	N82-18493 *	US-PATENT-APPL-SN-145208	c 34	N83-34221 *	US-PATENT-APPL-SN-159966	c 31	N73-26876 *
US-PATENT-APPL-SN-126138	c 34	N82-13376 *	US-PATENT-APPL-SN-145209	c 27	N82-29453 *	US-PATENT-APPL-SN-160093	c 04	N78-17031 *
US-PATENT-APPL-SN-12661	c 14	N72-22437 *	US-PATENT-APPL-SN-145210	c 09	N82-32254 *	US-PATENT-APPL-SN-160859	c 32	N73-26910 *
US-PATENT-APPL-SN-127234	c 08	N70-35423 *	US-PATENT-APPL-SN-145271	c 23	N81-29160 *	US-PATENT-APPL-SN-160860	c 18	N73-32437 *
US-PATENT-APPL-SN-127480	c 37	N75-26371 *	US-PATENT-APPL-SN-145272	c 33	N82-28545 *	US-PATENT-APPL-SN-161028	c 14	N73-19420 *
US-PATENT-APPL-SN-127481	c 24	N75-28135 *	US-PATENT-APPL-SN-145273	c 51	N81-32829 *	US-PATENT-APPL-SN-161254	c 27	N82-28441 *
US-PATENT-APPL-SN-127618	c 02	N73-13008 *	US-PATENT-APPL-SN-145282	c 74	N82-24072 *	US-PATENT-APPL-SN-161255	c 28	N81-24280 *
US-PATENT-APPL-SN-127647	c 15	N73-27405 *	US-PATENT-APPL-SN-145283	c 27	N82-24256 *	US-PATENT-APPL-SN-161256	c 44	N82-32841 *
US-PATENT-APPL-SN-127915	c 02	N73-26004 *	US-PATENT-APPL-SN-145284	c 27	N82-24338 *	US-PATENT-APPL-SN-161257	c 37	N85-29282 *
US-PATENT-APPL-SN-127984	c 33	N75-27250 *	US-PATENT-APPL-SN-145719	c 25	N90-20154 *	US-PATENT-APPL-SN-161681	c 76	N90-24169 *
US-PATENT-APPL-SN-128229	c 35	N82-24471 *	US-PATENT-APPL-SN-146217	c 14	N71-34389 *	US-PATENT-APPL-SN-161682	c 37	N91-14613 *
US-PATENT-APPL-SN-128230	c 60	N84-28491 *	US-PATENT-APPL-SN-146935	c 14	N73-20475 *	US-PATENT-APPL-SN-162100	c 33	N74-14939 *
US-PATENT-APPL-SN-128419	c 14	N73-20477 *	US-PATENT-APPL-SN-146938	c 35	N88-23963 *	US-PATENT-APPL-SN-162101	c 14	N73-24473 *
US-PATENT-APPL-SN-129071	c 09	N72-25254 *	US-PATENT-APPL-SN-146939	c 73	N75-30876 *	US-PATENT-APPL-SN-162230	c 26	N72-28761 *
US-PATENT-APPL-SN-129072	c 15	N73-13467 *	US-PATENT-APPL-SN-146939	c 35	N88-23962 *	US-PATENT-APPL-SN-162380	c 36	N74-21091 *
US-PATENT-APPL-SN-129073	c 15	N73-13464 *	US-PATENT-APPL-SN-146939	c 35	N92-21710 *	US-PATENT-APPL-SN-163122	c 07	N83-31603 *
US-PATENT-APPL-SN-129379	c 37	N79-33468 *	US-PATENT-APPL-SN-146940	c 05	N73-32014 *	US-PATENT-APPL-SN-163151	c 74	N75-25706 *
US-PATENT-APPL-SN-129579	c 28	N70-35381 *	US-PATENT-APPL-SN-147099	c 14	N73-13417 *	US-PATENT-APPL-SN-163152	c 17	N73-27446 *
US-PATENT-APPL-SN-129776	c 60	N82-24839 *	US-PATENT-APPL-SN-147103	c 10	N73-20253 *	US-PATENT-APPL-SN-163837	c 47	N83-32232 *
US-PATENT-APPL-SN-129779	c 60	N82-16747 *	US-PATENT-APPL-SN-147695	c 32	N84-27952 *	US-PATENT-APPL-SN-163838	c 23	N82-32841 *
US-PATENT-APPL-S								

US-PATENT-APPL-SN-164428	c 09	N70-35440 *	US-PATENT-APPL-SN-182266	c 17	N91-14371 *	US-PATENT-APPL-SN-197689	c 31	N75-13111 *
US-PATENT-APPL-SN-164617	c 06	N81-17057 *	US-PATENT-APPL-SN-182399	c 07	N73-28013 *	US-PATENT-APPL-SN-197870	c 14	N73-32322 *
US-PATENT-APPL-SN-165910	c 32	N83-31918 *	US-PATENT-APPL-SN-182692	c 15	N70-36535 *	US-PATENT-APPL-SN-198093	c 39	N83-20280 *
US-PATENT-APPL-SN-165943	c 37	N89-28831 *	US-PATENT-APPL-SN-182696	c 21	N70-36938 *	US-PATENT-APPL-SN-198285	c 09	N73-13208 *
US-PATENT-APPL-SN-165945	c 35	N90-22025 *	US-PATENT-APPL-SN-182698	c 15	N70-38620 *	US-PATENT-APPL-SN-198289	c 14	N73-32326 *
US-PATENT-APPL-SN-165946	c 20	N90-19298 *	US-PATENT-APPL-SN-182699	c 28	N70-38504 *	US-PATENT-APPL-SN-198355	c 05	N72-15098 *
US-PATENT-APPL-SN-165956	c 18	N90-19278 *	US-PATENT-APPL-SN-182879	c 37	N82-32730 *	US-PATENT-APPL-SN-198362	c 14	N73-28489 *
US-PATENT-APPL-SN-166487	c 11	N73-32152 *	US-PATENT-APPL-SN-182880	c 37	N83-19091 *	US-PATENT-APPL-SN-198379	c 15	N73-32359 *
US-PATENT-APPL-SN-166541	c 14	N73-13415 *	US-PATENT-APPL-SN-182881	c 18	N83-28064 *	US-PATENT-APPL-SN-198472	c 27	N74-12812 *
US-PATENT-APPL-SN-166969	c 15	N70-34249 *	US-PATENT-APPL-SN-182977	c 39	N74-13131 *	US-PATENT-APPL-SN-198763	c 31	N74-18124 *
US-PATENT-APPL-SN-166970	c 15	N70-36409 *	US-PATENT-APPL-SN-182978	c 16	N73-13489 *	US-PATENT-APPL-SN-198763	c 31	N74-32920 *
US-PATENT-APPL-SN-167719	c 16	N73-33397 *	US-PATENT-APPL-SN-183240	c 06	N73-30098 *	US-PATENT-APPL-SN-198885	c 05	N73-27062 *
US-PATENT-APPL-SN-168065	c 35	N91-14590 *	US-PATENT-APPL-SN-183475	c 52	N91-14709 *	US-PATENT-APPL-SN-199199	c 25	N71-29184 *
US-PATENT-APPL-SN-16808	c 14	N72-22445 *	US-PATENT-APPL-SN-183707	c 23	N85-33187 *	US-PATENT-APPL-SN-199202	c 14	N70-40239 *
US-PATENT-APPL-SN-168560	c 02	N70-34856 *	US-PATENT-APPL-SN-183977	c 28	N70-38505 *	US-PATENT-APPL-SN-19971	c 09	N70-33312 *
US-PATENT-APPL-SN-168650	c 14	N73-13416 *	US-PATENT-APPL-SN-183978	c 15	N70-38020 *	US-PATENT-APPL-SN-199765	c 33	N81-12330 *
US-PATENT-APPL-SN-168943	c 54	N82-26987 *	US-PATENT-APPL-SN-184090	c 14	N73-32327 *	US-PATENT-APPL-SN-199766	c 36	N84-28065 *
US-PATENT-APPL-SN-168944	c 37	N82-32731 *	US-PATENT-APPL-SN-184233	c 18	N89-28554 *	US-PATENT-APPL-SN-199767	c 33	N83-16626 *
US-PATENT-APPL-SN-169671	c 10	N73-30205 *	US-PATENT-APPL-SN-184234	c 76	N90-19884 *	US-PATENT-APPL-SN-199768	c 27	N84-22746 *
US-PATENT-APPL-SN-169962	c 34	N74-30608 *	US-PATENT-APPL-SN-184235	c 32	N90-17005 *	US-PATENT-APPL-SN-199768	c 27	N85-20123 *
US-PATENT-APPL-SN-169977	c 14	N70-34794 *	US-PATENT-APPL-SN-184236	c 37	N90-17153 *	US-PATENT-APPL-SN-199769	c 26	N82-31505 *
US-PATENT-APPL-SN-170440	c 15	N73-13462 *	US-PATENT-APPL-SN-18427	c 09	N72-23172 *	US-PATENT-APPL-SN-199957	c 10	N73-26229 *
US-PATENT-APPL-SN-170544	c 36	N77-19416 *	US-PATENT-APPL-SN-184649	c 07	N70-36911 *	US-PATENT-APPL-SN-200040	c 52	N74-10975 *
US-PATENT-APPL-SN-170680	c 34	N74-15652 *	US-PATENT-APPL-SN-184960	c 06	N73-27890 *	US-PATENT-APPL-SN-200085	c 26	N73-26751 *
US-PATENT-APPL-SN-170681	c 10	N73-25240 *	US-PATENT-APPL-SN-185865	c 52	N80-33081 *	US-PATENT-APPL-SN-200634	c 34	N83-27144 *
US-PATENT-APPL-SN-17101	c 28	N72-18766 *	US-PATENT-APPL-SN-185867	c 44	N82-26777 *	US-PATENT-APPL-SN-200682	c 07	N73-14130 *
US-PATENT-APPL-SN-171928	c 33	N82-26570 *	US-PATENT-APPL-SN-185868	c 24	N84-16262 *	US-PATENT-APPL-SN-200717	c 09	N73-19234 *
US-PATENT-APPL-SN-171933	c 37	N82-12441 *	US-PATENT-APPL-SN-185869	c 71	N82-16800 *	US-PATENT-APPL-SN-200762	c 03	N73-20040 *
US-PATENT-APPL-SN-171934	c 35	N82-26628 *	US-PATENT-APPL-SN-186700	c 32	N74-12912 *	US-PATENT-APPL-SN-200770	c 09	N79-21084 *
US-PATENT-APPL-SN-172098	c 33	N80-29583 *	US-PATENT-APPL-SN-186881	c 74	N82-30071 *	US-PATENT-APPL-SN-200874	c 17	N88-28946 *
US-PATENT-APPL-SN-172099	c 32	N82-27558 *	US-PATENT-APPL-SN-187106	c 74	N83-17305 *	US-PATENT-APPL-SN-201700	c 33	N74-17930 *
US-PATENT-APPL-SN-172100	c 27	N82-33520 *	US-PATENT-APPL-SN-187143	c 36	N74-13205 *	US-PATENT-APPL-SN-201782	c 15	N73-19458 *
US-PATENT-APPL-SN-172101	c 31	N90-21215 *	US-PATENT-APPL-SN-187262	c 15	N73-27406 *	US-PATENT-APPL-SN-201904	c 15	N73-30458 *
US-PATENT-APPL-SN-172101	c 76	N90-23242 *	US-PATENT-APPL-SN-187365	c 35	N74-15127 *	US-PATENT-APPL-SN-201904	c 37	N74-15128 *
US-PATENT-APPL-SN-172102	c 26	N89-28621 *	US-PATENT-APPL-SN-187446	c 31	N70-37924 *	US-PATENT-APPL-SN-201904	c 37	N74-21064 *
US-PATENT-APPL-SN-172105	c 33	N91-31528 *	US-PATENT-APPL-SN-187716	c 74	N88-25305 *	US-PATENT-APPL-SN-202024	c 14	N70-34156 *
US-PATENT-APPL-SN-172105	c 63	N91-31885 *	US-PATENT-APPL-SN-18776	c 28	N70-33284 *	US-PATENT-APPL-SN-202029	c 11	N70-34786 *
US-PATENT-APPL-SN-172459	c 06	N73-16106 *	US-PATENT-APPL-SN-18780	c 12	N70-33305 *	US-PATENT-APPL-SN-202030	c 31	N71-10747 *
US-PATENT-APPL-SN-172727	c 33	N81-26360 *	US-PATENT-APPL-SN-188160	c 74	N82-19029 *	US-PATENT-APPL-SN-202228	c 34	N82-11399 *
US-PATENT-APPL-SN-172807	c 07	N73-28012 *	US-PATENT-APPL-SN-188594	c 15	N70-34967 *	US-PATENT-APPL-SN-202228	c 34	N85-29179 *
US-PATENT-APPL-SN-173081	c 28	N70-36806 *	US-PATENT-APPL-SN-188836	c 35	N74-34857 *	US-PATENT-APPL-SN-202750	c 19	N74-21015 *
US-PATENT-APPL-SN-173178	c 33	N77-21315 *	US-PATENT-APPL-SN-188927	c 08	N73-32081 *	US-PATENT-APPL-SN-202769	c 05	N73-27941 *
US-PATENT-APPL-SN-173185	c 23	N73-13660 *	US-PATENT-APPL-SN-188928	c 37	N74-13178 *	US-PATENT-APPL-SN-203177	c 39	N88-25011 *
US-PATENT-APPL-SN-173190	c 05	N73-32015 *	US-PATENT-APPL-SN-189290	c 14	N73-27379 *	US-PATENT-APPL-SN-203178	c 34	N90-19534 *
US-PATENT-APPL-SN-173518	c 60	N82-29013 *	US-PATENT-APPL-SN-189375	c 18	N73-14584 *	US-PATENT-APPL-SN-203178	c 34	N91-31596 *
US-PATENT-APPL-SN-173519	c 44	N82-26776 *	US-PATENT-APPL-SN-189438	c 35	N76-15431 *	US-PATENT-APPL-SN-203271	c 51	N74-15778 *
US-PATENT-APPL-SN-173520	c 31	N83-27058 *	US-PATENT-APPL-SN-189648	c 32	N70-36536 *	US-PATENT-APPL-SN-203374	c 32	N91-25316 *
US-PATENT-APPL-SN-173524	c 35	N82-32659 *	US-PATENT-APPL-SN-18982	c 28	N72-11708 *	US-PATENT-APPL-SN-203405	c 02	N73-26006 *
US-PATENT-APPL-SN-173981	c 14	N70-35666 *	US-PATENT-APPL-SN-190185	c 17	N88-25304 *	US-PATENT-APPL-SN-203409	c 28	N70-38197 *
US-PATENT-APPL-SN-174684	c 33	N75-31331 *	US-PATENT-APPL-SN-190316	c 17	N73-32414 *	US-PATENT-APPL-SN-203411	c 33	N70-38412 *
US-PATENT-APPL-SN-175267	c 14	N73-28486 *	US-PATENT-APPL-SN-191301	c 25	N74-12813 *	US-PATENT-APPL-SN-20370	c 33	N79-33393 *
US-PATENT-APPL-SN-175452	c 27	N81-27272 *	US-PATENT-APPL-SN-191744	c 33	N82-29538 *	US-PATENT-APPL-SN-204015	c 09	N70-38201 *
US-PATENT-APPL-SN-175452	c 27	N85-21347 *	US-PATENT-APPL-SN-191746	c 26	N81-16209 *	US-PATENT-APPL-SN-205047	c 15	N73-32360 *
US-PATENT-APPL-SN-175453	c 85	N82-33288 *	US-PATENT-APPL-SN-191746	c 26	N82-30371 *	US-PATENT-APPL-SN-205470	c 08	N71-18752 *
US-PATENT-APPL-SN-175497	c 08	N73-28045 *	US-PATENT-APPL-SN-191748	c 35	N82-31659 *	US-PATENT-APPL-SN-205675	c 14	N73-30386 *
US-PATENT-APPL-SN-175852	c 25	N73-25760 *	US-PATENT-APPL-SN-192016	c 03	N70-36778 *	US-PATENT-APPL-SN-205771	c 31	N89-29575 *
US-PATENT-APPL-SN-175881	c 09	N73-15235 *	US-PATENT-APPL-SN-192101	c 10	N73-20254 *	US-PATENT-APPL-SN-205898	c 09	N90-23415 *
US-PATENT-APPL-SN-175981	c 16	N73-30476 *	US-PATENT-APPL-SN-192141	c 07	N73-24176 *	US-PATENT-APPL-SN-205899	c 35	N90-22769 *
US-PATENT-APPL-SN-175983	c 31	N73-32750 *	US-PATENT-APPL-SN-192562	c 04	N91-31120 *	US-PATENT-APPL-SN-205900	c 35	N90-22770 *
US-PATENT-APPL-SN-176545	c 31	N88-24817 *	US-PATENT-APPL-SN-192563	c 05	N90-23390 *	US-PATENT-APPL-SN-206266	c 76	N74-20329 *
US-PATENT-APPL-SN-176547	c 76	N90-24168 *	US-PATENT-APPL-SN-192680	c 07	N73-22076 *	US-PATENT-APPL-SN-206266	c 76	N75-25730 *
US-PATENT-APPL-SN-176587	c 20	N88-24684 *	US-PATENT-APPL-SN-192803	c 35	N76-16391 *	US-PATENT-APPL-SN-206279	c 02	N73-26005 *
US-PATENT-APPL-SN-176587	c 37	N91-32508 *	US-PATENT-APPL-SN-192970	c 23	N73-30665 *	US-PATENT-APPL-SN-206279	c 05	N76-29217 *
US-PATENT-APPL-SN-177684	c 28	N70-34860 *	US-PATENT-APPL-SN-193456	c 10	N73-25243 *	US-PATENT-APPL-SN-206506	c 33	N82-24422 *
US-PATENT-APPL-SN-177753	c 07	N72-20154 *	US-PATENT-APPL-SN-193612	c 37	N91-17388 *	US-PATENT-APPL-SN-206698	c 15	N73-30459 *
US-PATENT-APPL-SN-177985	c 35	N74-15831 *	US-PATENT-APPL-SN-193671	c 15	N73-12488 *	US-PATENT-APPL-SN-207135	c 35	N83-27184 *
US-PATENT-APPL-SN-178192	c 25	N83-33977 *	US-PATENT-APPL-SN-193672	c 54	N74-14845 *	US-PATENT-APPL-SN-207211	c 07	N73-30113 *
US-PATENT-APPL-SN-178193	c 52	N82-29862 *	US-PATENT-APPL-SN-193814	c 14	N73-30393 *	US-PATENT-APPL-SN-209478	c 07	N70-38200 *
US-PATENT-APPL-SN-178195	c 35	N82-24470 *	US-PATENT-APPL-SN-193947	c 14	N73-13420 *	US-PATENT-APPL-SN-209479	c 15	N70-34850 *
US-PATENT-APPL-SN-178213	c 25	N70-33267 *	US-PATENT-APPL-SN-193980	c 31	N74-13177 *	US-PATENT-APPL-SN-209535	c 28	N73-24783 *
US-PATENT-APPL-SN-178215	c 25	N70-34661 *	US-PATENT-APPL-SN-195061	c 05	N73-25125 *	US-PATENT-APPL-SN-20960	c 15	N72-17453 *
US-PATENT-APPL-SN-178721	c 03	N70-35408 *	US-PATENT-APPL-SN-195222	c 31	N91-15423 *	US-PATENT-APPL-SN-209618	c 33	N75-19520 *
US-PATENT-APPL-SN-178771	c 23	N75-14834 *	US-PATENT-APPL-SN-195223	c 35	N83-21311 *	US-PATENT-APPL-SN-209618	c 33	N75-25041 *
US-PATENT-APPL-SN-180230	c 33	N83-18996 *	US-PATENT-APPL-SN-195225	c 32	N88-26541 *	US-PATENT-APPL-SN-209801	c 08	N70-40125 *
US-PATENT-APPL-SN-180370	c 28	N70-33375 *	US-PATENT-APPL-SN-195226	c 31	N83-31895 *	US-PATENT-APPL-SN-210277	c 39	N88-30160 *
US-PATENT-APPL-SN-180374	c 28	N70-38181 *	US-PATENT-APPL-SN-195226	c 17	N90-21061 *	US-PATENT-APPL-SN-210405	c 74	N84-11921 *
US-PATENT-APPL-SN-180377	c 15	N70-36908 *	US-PATENT-APPL-SN-195227	c 74	N83-32577 *	US-PATENT-APPL-SN-210480	c 05	N90-20078 *
US-PATENT-APPL-SN-180379	c 21	N70-35395 *	US-PATENT-APPL-SN-195228	c 74	N83-10900 *	US-PATENT-APPL-SN-210486	c 26	N90-21170 *
US-PATENT-APPL-SN-180380	c 09	N70-38998 *	US-PATENT-APPL-SN-195346	c 15	N70-36492 *	US-PATENT-APPL-SN-210487	c 35	N90-17117 *
US-PATENT-APPL-SN-180381	c 21	N70-35089 *	US-PATENT-APPL-SN-195347	c 31	N70-34135 *	US-PATENT-APPL-SN-210498	c 35	N84-12444 *
US-PATENT-APPL-SN-180382	c 28	N70-38645 *	US-PATENT-APPL-SN-195547	c 32	N83-18975 *	US-PATENT-APPL-SN-210506	c 39	N83-32081 *
US-PATENT-APPL-SN-180384	c 11	N70-38675 *	US-PATENT-APPL-SN-195563	c 09	N91-14357 *	US-PATENT-APPL-SN-210632	c 26	N83-10170 *
US-PATENT-APPL-SN-180391	c 28	N70-38249 *	US-PATENT-APPL-SN-19572	c 35	N77-27368 *	US-PATENT-APPL-SN-211332	c 02	N74-10034 *
US-PATENT-APPL-SN-180392	c 09	N71-13530 *	US-PATENT-APPL-SN-19585	c 15	N72-25455 *	US-PATENT-APPL-SN-211411	c 11	N73-20267 *
US-PATENT-APPL-SN-180394	c 15	N70-38603 *	US-PATENT-APPL-SN-196399	c 07	N73-25161 *	US-PATENT-APPL-SN-211464	c 28	N70-36910 *
US-PATENT-APPL-SN-180395	c 15	N70-36947 *	US-PATENT-APPL-SN-196877	c 35	N84-17555 *	US-PATENT-APPL-SN-212028	c 09	N73-14214 *
US-PATENT-APPL-SN-180396	c 11	N70-38202 *	US-PATENT-APPL-SN-196898	c 38	N74-15130 *	US-PATENT-APPL-SN-212165	c 14	N73-25460 *
US-PATENT-APPL-SN-180473	c 28	N73-27699 *	US-PATENT-APPL-SN-196931	c 35	N74-17885 *	US-PATENT-APPL-SN-212173	c 02	N71-13421 *
US-PATENT-APPL-SN-180683	c 10	N73-25241 *	US-PATENT-APPL-SN-196970	c 15	N73-33383 *	US-PATENT-APPL-SN-212174	c 15	N70-34859 *
US-PATENT-APPL-SN-180963	c 14	N73-27378 *	US-PATENT-APPL-SN-197183	c 02	N76-22154 *	US-PATENT-APPL-SN-212496	c 03	N70-36803 *
US-PATENT-APPL-SN-181023	c 15	N73-26472 *	US-PATENT-APPL-SN-197191	c 32	N89-28672 *	US-PATENT-APPL-SN-212497	c 11	N71-28779 *
US-PATENT-APPL-SN-181024	c 07	N73-26117 *	US-PATENT-APPL-SN-197548	c 09	N70-34502 *	US-PATENT-APPL-SN-21263	c 01	N71-12217 *
US-PATENT-APPL-SN-181828	c 02	N70-34858 *	US-PATENT-APPL-SN-197551	c 31	N70-34958 *	US-PATENT-APPL-SN-212900	c 14	N73-25462 *
US-PATENT-APPL-SN								

REPORT NUMBER INDEX

US-PATENT-APPL-SN-253405

US-PATENT-APPL-SN-213004	c 14	N73-19421 *	US-PATENT-APPL-SN-229239	c 31	N83-31897 *	US-PATENT-APPL-SN-24224	c 09	N72-20200 *
US-PATENT-APPL-SN-213392	c 27	N90-23566 *	US-PATENT-APPL-SN-229286	c 33	N71-29052 *	US-PATENT-APPL-SN-242253	c 03	N91-15142 *
US-PATENT-APPL-SN-213558	c 51	N91-30667 *	US-PATENT-APPL-SN-229287	c 35	N78-29421 *	US-PATENT-APPL-SN-242254	c 33	N91-31530 *
US-PATENT-APPL-SN-213559	c 51	N91-21700 *	US-PATENT-APPL-SN-229354	c 62	N74-14920 *	US-PATENT-APPL-SN-242662	c 74	N74-15095 *
US-PATENT-APPL-SN-213836	c 15	N70-38601 *	US-PATENT-APPL-SN-229413	c 14	N73-32323 *	US-PATENT-APPL-SN-242790	c 06	N83-33882 *
US-PATENT-APPL-SN-213880	c 54	N90-25498 *	US-PATENT-APPL-SN-229693	c 37	N84-22958 *	US-PATENT-APPL-SN-242795	c 18	N83-20996 *
US-PATENT-APPL-SN-213949	c 07	N73-20175 *	US-PATENT-APPL-SN-229916	c 46	N74-13011 *	US-PATENT-APPL-SN-242795	c 37	N84-22957 *
US-PATENT-APPL-SN-214006	c 37	N74-18126 *	US-PATENT-APPL-SN-230613	c 05	N83-27975 *	US-PATENT-APPL-SN-242796	c 44	N83-13579 *
US-PATENT-APPL-SN-214084	c 37	N74-18123 *	US-PATENT-APPL-SN-231025	c 33	N88-29095 *	US-PATENT-APPL-SN-242797	c 74	N85-22139 *
US-PATENT-APPL-SN-214086	c 14	N73-30395 *	US-PATENT-APPL-SN-231026	c 27	N91-15402 *	US-PATENT-APPL-SN-243374	c 15	N77-10112 *
US-PATENT-APPL-SN-214089	c 35	N74-21018 *	US-PATENT-APPL-SN-231027	c 27	N90-21177 *	US-PATENT-APPL-SN-243682	c 74	N83-19596 *
US-PATENT-APPL-SN-214361	c 37	N83-32067 *	US-PATENT-APPL-SN-231132	c 08	N72-22163 *	US-PATENT-APPL-SN-243683	c 33	N81-22280 *
US-PATENT-APPL-SN-21508	c 08	N72-20176 *	US-PATENT-APPL-SN-231520	c 27	N71-29155 *	US-PATENT-APPL-SN-243683	c 33	N83-28319 *
US-PATENT-APPL-SN-21644	c 05	N72-22092 *	US-PATENT-APPL-SN-231543	c 07	N83-20944 *	US-PATENT-APPL-SN-243683	c 33	N84-14424 *
US-PATENT-APPL-SN-216710	c 12	N70-38997 *	US-PATENT-APPL-SN-231604	c 28	N70-39925 *	US-PATENT-APPL-SN-243683	c 33	N84-33660 *
US-PATENT-APPL-SN-216711	c 03	N70-34157 *	US-PATENT-APPL-SN-231662	c 14	N73-30392 *	US-PATENT-APPL-SN-243684	c 37	N84-12492 *
US-PATENT-APPL-SN-216939	c 14	N70-40400 *	US-PATENT-APPL-SN-232021	c 04	N74-13420 *	US-PATENT-APPL-SN-243685	c 05	N91-14345 *
US-PATENT-APPL-SN-217213	c 37	N74-11301 *	US-PATENT-APPL-SN-232318	c 11	N71-15960 *	US-PATENT-APPL-SN-244158	c 32	N74-20863 *
US-PATENT-APPL-SN-21732	c 15	N70-26819 *	US-PATENT-APPL-SN-232734	c 29	N90-20236 *	US-PATENT-APPL-SN-244367	c 74	N89-13253 *
US-PATENT-APPL-SN-217336	c 27	N82-29456 *	US-PATENT-APPL-SN-232735	c 76	N90-24150 *	US-PATENT-APPL-SN-244369	c 29	N90-21209 *
US-PATENT-APPL-SN-217533	c 76	N88-29602 *	US-PATENT-APPL-SN-232914	c 15	N70-36412 *	US-PATENT-APPL-SN-244377	c 31	N91-15424 *
US-PATENT-APPL-SN-217725	c 35	N91-15511 *	US-PATENT-APPL-SN-233098	c 12	N73-25262 *	US-PATENT-APPL-SN-244440	c 21	N73-19630 *
US-PATENT-APPL-SN-218585	c 27	N82-24340 *	US-PATENT-APPL-SN-233173	c 12	N72-28144 *	US-PATENT-APPL-SN-244440	c 14	N73-32320 *
US-PATENT-APPL-SN-218586	c 36	N81-22344 *	US-PATENT-APPL-SN-233269	c 76	N82-30105 *	US-PATENT-APPL-SN-244519	c 37	N74-18125 *
US-PATENT-APPL-SN-218587	c 27	N82-28440 *	US-PATENT-APPL-SN-233270	c 52	N83-25758 *	US-PATENT-APPL-SN-244523	c 31	N73-30829 *
US-PATENT-APPL-SN-218588	c 27	N82-33521 *	US-PATENT-APPL-SN-233271	c 27	N83-34043 *	US-PATENT-APPL-SN-244566	c 74	N74-20008 *
US-PATENT-APPL-SN-218792	c 27	N91-31307 *	US-PATENT-APPL-SN-233519	c 20	N74-13502 *	US-PATENT-APPL-SN-245063	c 33	N74-11050 *
US-PATENT-APPL-SN-218965	c 10	N73-32145 *	US-PATENT-APPL-SN-233587	c 16	N72-22520 *	US-PATENT-APPL-SN-245279	c 25	N81-30442 *
US-PATENT-APPL-SN-219016	c 27	N92-10090 *	US-PATENT-APPL-SN-233743	c 37	N74-13179 *	US-PATENT-APPL-SN-245571	c 07	N84-22560 *
US-PATENT-APPL-SN-21906	c 09	N72-17157 *	US-PATENT-APPL-SN-234222	c 34	N85-21568 *	US-PATENT-APPL-SN-245941	c 33	N71-17897 *
US-PATENT-APPL-SN-219295	c 61	N91-14741 *	US-PATENT-APPL-SN-234223	c 35	N83-21312 *	US-PATENT-APPL-SN-246032	c 32	N91-14523 *
US-PATENT-APPL-SN-219435	c 24	N74-27035 *	US-PATENT-APPL-SN-234224	c 36	N83-34304 *	US-PATENT-APPL-SN-246056	c 38	N74-15395 *
US-PATENT-APPL-SN-219436	c 15	N72-21489 *	US-PATENT-APPL-SN-234225	c 33	N83-36357 *	US-PATENT-APPL-SN-246294	c 27	N82-29454 *
US-PATENT-APPL-SN-219590	c 06	N73-32030 *	US-PATENT-APPL-SN-234568	c 28	N70-34788 *	US-PATENT-APPL-SN-246295	c 27	N82-29452 *
US-PATENT-APPL-SN-219640	c 74	N83-13978 *	US-PATENT-APPL-SN-235150	c 36	N91-15528 *	US-PATENT-APPL-SN-246594	c 37	N90-23742 *
US-PATENT-APPL-SN-219677	c 44	N82-31764 *	US-PATENT-APPL-SN-235162	c 08	N71-12501 *	US-PATENT-APPL-SN-246595	c 35	N89-12842 *
US-PATENT-APPL-SN-219678	c 44	N82-29709 *	US-PATENT-APPL-SN-235266	c 26	N73-32571 *	US-PATENT-APPL-SN-246772	c 44	N83-10494 *
US-PATENT-APPL-SN-219680	c 27	N82-28442 *	US-PATENT-APPL-SN-235268	c 36	N74-15145 *	US-PATENT-APPL-SN-246773	c 35	N83-29650 *
US-PATENT-APPL-SN-219681	c 24	N82-29362 *	US-PATENT-APPL-SN-235269	c 09	N73-30181 *	US-PATENT-APPL-SN-246774	c 34	N83-31993 *
US-PATENT-APPL-SN-219681	c 54	N84-11758 *	US-PATENT-APPL-SN-235295	c 09	N73-30185 *	US-PATENT-APPL-SN-246777	c 45	N83-25217 *
US-PATENT-APPL-SN-219722	c 03	N75-30132 *	US-PATENT-APPL-SN-23532	c 07	N72-21117 *	US-PATENT-APPL-SN-246778	c 36	N83-35350 *
US-PATENT-APPL-SN-219806	c 07	N74-28226 *	US-PATENT-APPL-SN-235338	c 71	N71-31148 *	US-PATENT-APPL-SN-247055	c 37	N74-11300 *
US-PATENT-APPL-SN-219968	c 33	N83-27126 *	US-PATENT-APPL-SN-235472	c 60	N84-28492 *	US-PATENT-APPL-SN-247090	c 37	N74-18128 *
US-PATENT-APPL-SN-220212	c 33	N83-31952 *	US-PATENT-APPL-SN-235588	c 28	N71-28928 *	US-PATENT-APPL-SN-247136	c 14	N71-30265 *
US-PATENT-APPL-SN-220213	c 37	N85-20337 *	US-PATENT-APPL-SN-235796	c 35	N82-28604 *	US-PATENT-APPL-SN-247419	c 14	N70-36907 *
US-PATENT-APPL-SN-220214	c 44	N82-29710 *	US-PATENT-APPL-SN-235797	c 44	N83-32175 *	US-PATENT-APPL-SN-247423	c 01	N71-13410 *
US-PATENT-APPL-SN-220251	c 37	N74-15125 *	US-PATENT-APPL-SN-235868	c 34	N83-29625 *	US-PATENT-APPL-SN-247434	c 25	N76-29379 *
US-PATENT-APPL-SN-220274	c 31	N72-20840 *	US-PATENT-APPL-SN-235957	c 14	N73-27376 *	US-PATENT-APPL-SN-247434	c 25	N76-27383 *
US-PATENT-APPL-SN-220274	c 18	N74-22136 *	US-PATENT-APPL-SN-235962	c 36	N74-11313 *	US-PATENT-APPL-SN-247481	c 05	N73-26071 *
US-PATENT-APPL-SN-220785	c 85	N74-34672 *	US-PATENT-APPL-SN-236052	c 14	N72-25428 *	US-PATENT-APPL-SN-248009	c 23	N91-27220 *
US-PATENT-APPL-SN-221093	c 17	N73-32415 *	US-PATENT-APPL-SN-236281	c 09	N73-20232 *	US-PATENT-APPL-SN-248010	c 37	N89-12666 *
US-PATENT-APPL-SN-221276	c 14	N70-41955 *	US-PATENT-APPL-SN-236285	c 08	N73-26175 *	US-PATENT-APPL-SN-248018	c 24	N90-25197 *
US-PATENT-APPL-SN-221386	c 23	N90-21118 *	US-PATENT-APPL-SN-236748	c 14	N70-40157 *	US-PATENT-APPL-SN-248019	c 76	N89-14120 *
US-PATENT-APPL-SN-221386	c 23	N91-14418 *	US-PATENT-APPL-SN-236749	c 15	N70-40180 *	US-PATENT-APPL-SN-248020	c 35	N90-23706 *
US-PATENT-APPL-SN-221388	c 37	N90-20408 *	US-PATENT-APPL-SN-236985	c 44	N74-19692 *	US-PATENT-APPL-SN-248469	c 14	N73-32318 *
US-PATENT-APPL-SN-221472	c 54	N89-13889 *	US-PATENT-APPL-SN-237029	c 09	N73-32108 *	US-PATENT-APPL-SN-248471	c 31	N74-27902 *
US-PATENT-APPL-SN-221634	c 05	N70-34857 *	US-PATENT-APPL-SN-237035	c 35	N91-15512 *	US-PATENT-APPL-SN-248744	c 05	N83-19737 *
US-PATENT-APPL-SN-221637	c 26	N70-36805 *	US-PATENT-APPL-SN-237036	c 34	N90-20323 *	US-PATENT-APPL-SN-248745	c 18	N83-29303 *
US-PATENT-APPL-SN-221670	c 35	N77-14408 *	US-PATENT-APPL-SN-237491	c 05	N75-12930 *	US-PATENT-APPL-SN-248746	c 37	N83-36482 *
US-PATENT-APPL-SN-221685	c 35	N74-21062 *	US-PATENT-APPL-SN-237657	c 31	N90-21216 *	US-PATENT-APPL-SN-248761	c 15	N74-27360 *
US-PATENT-APPL-SN-221714	c 09	N73-32110 *	US-PATENT-APPL-SN-237694	c 35	N74-11284 *	US-PATENT-APPL-SN-248985	c 03	N71-29129 *
US-PATENT-APPL-SN-221833	c 09	N73-27150 *	US-PATENT-APPL-SN-238047	c 33	N74-12951 *	US-PATENT-APPL-SN-249304	c 35	N84-14491 *
US-PATENT-APPL-SN-221945	c 31	N70-36410 *	US-PATENT-APPL-SN-238257	c 07	N84-33410 *	US-PATENT-APPL-SN-249537	c 14	N71-10797 *
US-PATENT-APPL-SN-22265	c 14	N72-21405 *	US-PATENT-APPL-SN-238263	c 35	N74-10415 *	US-PATENT-APPL-SN-249539	c 28	N71-15658 *
US-PATENT-APPL-SN-223003	c 33	N70-36846 *	US-PATENT-APPL-SN-238264	c 37	N74-21061 *	US-PATENT-APPL-SN-249540	c 15	N70-34861 *
US-PATENT-APPL-SN-223122	c 37	N91-14614 *	US-PATENT-APPL-SN-238264	c 37	N74-32921 *	US-PATENT-APPL-SN-249542	c 28	N70-41576 *
US-PATENT-APPL-SN-223124	c 31	N90-19427 *	US-PATENT-APPL-SN-238264	c 37	N76-15461 *	US-PATENT-APPL-SN-250195	c 34	N90-23700 *
US-PATENT-APPL-SN-223230	c 14	N72-11365 *	US-PATENT-APPL-SN-238421	c 28	N71-29153 *	US-PATENT-APPL-SN-250196	c 37	N89-12668 *
US-PATENT-APPL-SN-223560	c 10	N73-32144 *	US-PATENT-APPL-SN-238785	c 44	N83-14693 *	US-PATENT-APPL-SN-250451	c 08	N70-34787 *
US-PATENT-APPL-SN-224231	c 06	N83-10040 *	US-PATENT-APPL-SN-238786	c 37	N83-26078 *	US-PATENT-APPL-SN-250468	c 05	N91-27156 *
US-PATENT-APPL-SN-224231	c 06	N84-34443 *	US-PATENT-APPL-SN-238790	c 44	N82-29708 *	US-PATENT-APPL-SN-250469	c 37	N90-22042 *
US-PATENT-APPL-SN-224232	c 36	N83-29680 *	US-PATENT-APPL-SN-238791	c 71	N84-14873 *	US-PATENT-APPL-SN-250480	c 27	N92-22044 *
US-PATENT-APPL-SN-224489	c 31	N74-18089 *	US-PATENT-APPL-SN-238826	c 28	N77-10213 *	US-PATENT-APPL-SN-250567	c 33	N71-24876 *
US-PATENT-APPL-SN-225427	c 37	N91-15544 *	US-PATENT-APPL-SN-238887	c 37	N81-22360 *	US-PATENT-APPL-SN-250585	c 32	N85-21428 *
US-PATENT-APPL-SN-225499	c 37	N84-12491 *	US-PATENT-APPL-SN-238888	c 37	N84-28082 *	US-PATENT-APPL-SN-250661	c 23	N89-11814 *
US-PATENT-APPL-SN-225501	c 44	N82-28780 *	US-PATENT-APPL-SN-239259	c 27	N90-23546 *	US-PATENT-APPL-SN-250662	c 37	N91-14615 *
US-PATENT-APPL-SN-226476	c 10	N73-32143 *	US-PATENT-APPL-SN-239260	c 37	N89-12867 *	US-PATENT-APPL-SN-250766	c 07	N73-30115 *
US-PATENT-APPL-SN-226477	c 74	N74-27866 *	US-PATENT-APPL-SN-239573	c 33	N74-10223 *	US-PATENT-APPL-SN-250974	c 31	N71-15664 *
US-PATENT-APPL-SN-226551	c 06	N73-26100 *	US-PATENT-APPL-SN-239574	c 09	N73-32107 *	US-PATENT-APPL-SN-251009	c 33	N84-16452 *
US-PATENT-APPL-SN-227682	c 14	N70-34161 *	US-PATENT-APPL-SN-239575	c 09	N74-19528 *	US-PATENT-APPL-SN-251073	c 35	N90-23713 *
US-PATENT-APPL-SN-227683	c 02	N70-36804 *	US-PATENT-APPL-SN-239576	c 33	N74-14935 *	US-PATENT-APPL-SN-251411	c 09	N91-14356 *
US-PATENT-APPL-SN-227692	c 14	N70-40003 *	US-PATENT-APPL-SN-239577	c 35	N74-13132 *	US-PATENT-APPL-SN-251438	c 35	N90-23707 *
US-PATENT-APPL-SN-227977	c 25	N76-18245 *	US-PATENT-APPL-SN-239803	c 70	N74-13436 *	US-PATENT-APPL-SN-251439	c 31	N90-20254 *
US-PATENT-APPL-SN-228049	c 37	N79-33467 *	US-PATENT-APPL-SN-240760	c 15	N71-16075 *	US-PATENT-APPL-SN-251449	c 07	N70-40063 *
US-PATENT-APPL-SN-228150	c 05	N73-32013 *	US-PATENT-APPL-SN-241061	c 06	N72-27151 *	US-PATENT-APPL-SN-251451	c 09	N70-35425 *
US-PATENT-APPL-SN-228163	c 44	N74-19693 *	US-PATENT-APPL-SN-241061	c 06	N73-33076 *	US-PATENT-APPL-SN-251499	c 24	N91-15240 *
US-PATENT-APPL-SN-228189	c 35	N74-11283 *	US-PATENT-APPL-SN-241085	c 14	N70-40238 *	US-PATENT-APPL-SN-251609	c 05	N73-30078 *
US-PATENT-APPL-SN-228190	c 23	N73-30666 *	US-PATENT-APPL-SN-241154	c 04	N84-17732 *	US-PATENT-APPL-SN-251621	c 16	N73-32391 *
US-PATENT-APPL-SN-228229	c 27	N77-31308 *	US-PATENT-APPL-SN-241155	c 27	N84-24324 *	US-PATENT-APPL-SN-251752	c 24	N74-30001 *
US-PATENT-APPL-SN-228507	c 11	N70-38182 *	US-PATENT-APPL-SN-241554	c 15	N70-35679 *	US-PATENT-APPL-SN-251755	c 28	N70-39895 *
US-PATENT-APPL-SN-228569	c 14	N71-16014 *	US-PATENT-APPL-SN-241554	c 15	N72-17450 *	US-PATENT-APPL-SN-252077	c 34	N90-21999 *
US-PATENT-APPL-SN-229128	c 14	N73-28490 *	US-PATENT-APPL-SN-241555	c 14	N73-26432 *	US-PATENT-APPL-SN-252078	c 24	N90-23480 *
US-PATENT-APPL-SN-229143	c 09	N72-21248 *	US-PATENT-APPL-SN-241614	c 10	N73-27171 *	US-PATENT-APPL-SN-252081	c 05	N90-20079 *
US-PATENT								

US-PATENT-APPL-SN-253725	c 35	N74-13129 *	US-PATENT-APPL-SN-269212	c 07	N71-10775 *	US-PATENT-APPL-SN-288267	c 27	N83-31854 *
US-PATENT-APPL-SN-253774	c 25	N70-36946 *	US-PATENT-APPL-SN-269215	c 14	N70-41332 *	US-PATENT-APPL-SN-288267	c 27	N84-22745 *
US-PATENT-APPL-SN-254173	c 35	N75-13213 *	US-PATENT-APPL-SN-269222	c 15	N70-38225 *	US-PATENT-APPL-SN-288267	c 27	N85-21347 *
US-PATENT-APPL-SN-254177	c 10	N73-26230 *	US-PATENT-APPL-SN-269450	c 36	N76-18427 *	US-PATENT-APPL-SN-288847	c 33	N74-27862 *
US-PATENT-APPL-SN-254323	c 35	N76-15434 *	US-PATENT-APPL-SN-270118	c 33	N71-17610 *	US-PATENT-APPL-SN-288856	c 33	N74-20859 *
US-PATENT-APPL-SN-254575	c 25	N83-10126 *	US-PATENT-APPL-SN-270189	c 07	N89-23466 *	US-PATENT-APPL-SN-288857	c 14	N73-33361 *
US-PATENT-APPL-SN-254688	c 52	N83-27577 *	US-PATENT-APPL-SN-270763	c 36	N84-14509 *	US-PATENT-APPL-SN-289017	c 37	N74-27905 *
US-PATENT-APPL-SN-254847	c 15	N71-22874 *	US-PATENT-APPL-SN-271265	c 71	N91-14807 *	US-PATENT-APPL-SN-289018	c 08	N74-30421 *
US-PATENT-APPL-SN-25487	c 08	N72-21197 *	US-PATENT-APPL-SN-271821	c 15	N71-10778 *	US-PATENT-APPL-SN-289033	c 15	N73-32358 *
US-PATENT-APPL-SN-25488	c 08	N72-25206 *	US-PATENT-APPL-SN-271822	c 15	N71-15967 *	US-PATENT-APPL-SN-289033	c 37	N74-21055 *
US-PATENT-APPL-SN-255132	c 14	N71-15598 *	US-PATENT-APPL-SN-271823	c 27	N71-28929 *	US-PATENT-APPL-SN-289048	c 37	N74-21057 *
US-PATENT-APPL-SN-256317	c 52	N74-26626 *	US-PATENT-APPL-SN-271824	c 07	N71-21476 *	US-PATENT-APPL-SN-289049	c 19	N74-15089 *
US-PATENT-APPL-SN-256484	c 06	N70-34946 *	US-PATENT-APPL-SN-271951	c 35	N74-15092 *	US-PATENT-APPL-SN-289050	c 20	N74-32919 *
US-PATENT-APPL-SN-256493	c 20	N77-17143 *	US-PATENT-APPL-SN-272152	c 27	N83-29388 *	US-PATENT-APPL-SN-290021	c 37	N74-23064 *
US-PATENT-APPL-SN-257346	c 15	N70-36901 *	US-PATENT-APPL-SN-272233	c 44	N81-27615 *	US-PATENT-APPL-SN-290022	c 09	N73-12214 *
US-PATENT-APPL-SN-257593	c 36	N90-25340 *	US-PATENT-APPL-SN-272234	c 25	N83-13188 *	US-PATENT-APPL-SN-290030	c 33	N74-12887 *
US-PATENT-APPL-SN-258152	c 35	N74-15090 *	US-PATENT-APPL-SN-272406	c 33	N84-14422 *	US-PATENT-APPL-SN-290043	c 18	N75-27040 *
US-PATENT-APPL-SN-258171	c 34	N74-27744 *	US-PATENT-APPL-SN-272407	c 52	N83-21785 *	US-PATENT-APPL-SN-290867	c 28	N70-39931 *
US-PATENT-APPL-SN-258331	c 03	N73-31988 *	US-PATENT-APPL-SN-272837	c 71	N83-36846 *	US-PATENT-APPL-SN-290868	c 31	N70-34966 *
US-PATENT-APPL-SN-258623	c 60	N83-32342 *	US-PATENT-APPL-SN-273222	c 33	N74-27683 *	US-PATENT-APPL-SN-290870	c 15	N70-38996 *
US-PATENT-APPL-SN-258931	c 14	N70-40203 *	US-PATENT-APPL-SN-273240	c 35	N74-16135 *	US-PATENT-APPL-SN-290873	c 10	N71-16058 *
US-PATENT-APPL-SN-258932	c 05	N70-36493 *	US-PATENT-APPL-SN-27340	c 15	N72-20442 *	US-PATENT-APPL-SN-290915	c 32	N74-11000 *
US-PATENT-APPL-SN-259056	c 27	N82-29455 *	US-PATENT-APPL-SN-273519	c 35	N75-25122 *	US-PATENT-APPL-SN-291131	c 33	N83-31953 *
US-PATENT-APPL-SN-259208	c 44	N85-30474 *	US-PATENT-APPL-SN-273534	c 09	N70-38712 *	US-PATENT-APPL-SN-291132	c 33	N83-35227 *
US-PATENT-APPL-SN-259209	c 01	N83-35992 *	US-PATENT-APPL-SN-274348	c 60	N76-18800 *	US-PATENT-APPL-SN-291645	c 60	N85-21992 *
US-PATENT-APPL-SN-259210	c 32	N83-27085 *	US-PATENT-APPL-SN-274360	c 32	N74-20809 *	US-PATENT-APPL-SN-291845	c 52	N74-27566 *
US-PATENT-APPL-SN-259211	c 44	N84-14583 *	US-PATENT-APPL-SN-274705	c 44	N83-21503 *	US-PATENT-APPL-SN-292037	c 33	N90-23635 *
US-PATENT-APPL-SN-259212	c 35	N84-22931 *	US-PATENT-APPL-SN-274706	c 44	N83-21504 *	US-PATENT-APPL-SN-292047	c 37	N89-29750 *
US-PATENT-APPL-SN-259487	c 33	N70-36847 *	US-PATENT-APPL-SN-274708	c 35	N84-22929 *	US-PATENT-APPL-SN-292049	c 23	N91-17141 *
US-PATENT-APPL-SN-260087	c 21	N71-21688 *	US-PATENT-APPL-SN-275118	c 35	N74-18088 *	US-PATENT-APPL-SN-292049	c 23	N91-25185 *
US-PATENT-APPL-SN-260093	c 25	N74-26948 *	US-PATENT-APPL-SN-275909	c 33	N85-21491 *	US-PATENT-APPL-SN-292121	c 18	N90-11798 *
US-PATENT-APPL-SN-260241	c 74	N74-21304 *	US-PATENT-APPL-SN-276076	c 72	N84-16959 *	US-PATENT-APPL-SN-292123	c 18	N90-20126 *
US-PATENT-APPL-SN-260762	c 72	N91-14813 *	US-PATENT-APPL-SN-276599	c 74	N81-19896 *	US-PATENT-APPL-SN-292124	c 62	N91-25693 *
US-PATENT-APPL-SN-261183	c 09	N74-30597 *	US-PATENT-APPL-SN-276748	c 33	N83-34189 *	US-PATENT-APPL-SN-292130	c 32	N91-25317 *
US-PATENT-APPL-SN-261912	c 14	N70-34818 *	US-PATENT-APPL-SN-276749	c 74	N84-23247 *	US-PATENT-APPL-SN-292131	c 18	N91-14374 *
US-PATENT-APPL-SN-261917	c 09	N70-40272 *	US-PATENT-APPL-SN-277404	c 05	N70-39922 *	US-PATENT-APPL-SN-292146	c 37	N90-23751 *
US-PATENT-APPL-SN-261918	c 28	N70-41447 *	US-PATENT-APPL-SN-277436	c 37	N74-25968 *	US-PATENT-APPL-SN-292340	c 52	N79-21750 *
US-PATENT-APPL-SN-262268	c 24	N91-25200 *	US-PATENT-APPL-SN-277833	c 03	N70-41580 *	US-PATENT-APPL-SN-292382	c 27	N74-17283 *
US-PATENT-APPL-SN-262430	c 35	N74-18323 *	US-PATENT-APPL-SN-277904	c 28	N74-27425 *	US-PATENT-APPL-SN-292477	c 15	N73-12495 *
US-PATENT-APPL-SN-262596	c 14	N71-28958 *	US-PATENT-APPL-SN-277961	c 33	N70-36617 *	US-PATENT-APPL-SN-292596	c 10	N71-29135 *
US-PATENT-APPL-SN-262596	c 62	N76-31946 *	US-PATENT-APPL-SN-278137	c 51	N91-21701 *	US-PATENT-APPL-SN-292681	c 33	N74-10194 *
US-PATENT-APPL-SN-262851	c 74	N90-22383 *	US-PATENT-APPL-SN-278790	c 15	N70-34664 *	US-PATENT-APPL-SN-292682	c 14	N73-32319 *
US-PATENT-APPL-SN-263230	c 33	N74-20860 *	US-PATENT-APPL-SN-279170	c 34	N92-16243 *	US-PATENT-APPL-SN-292685	c 32	N74-20864 *
US-PATENT-APPL-SN-263498	c 34	N74-27859 *	US-PATENT-APPL-SN-2792	c 14	N70-33386 *	US-PATENT-APPL-SN-292686	c 20	N74-31269 *
US-PATENT-APPL-SN-263715	c 02	N70-33286 *	US-PATENT-APPL-SN-279624	c 24	N89-23623 *	US-PATENT-APPL-SN-292698	c 09	N73-32109 *
US-PATENT-APPL-SN-26375	c 02	N70-34858 *	US-PATENT-APPL-SN-279625	c 31	N90-23586 *	US-PATENT-APPL-SN-293412	c 27	N83-34039 *
US-PATENT-APPL-SN-263815	c 09	N74-17955 *	US-PATENT-APPL-SN-279630	c 60	N90-25583 *	US-PATENT-APPL-SN-293414	c 37	N84-16560 *
US-PATENT-APPL-SN-263828	c 34	N83-19015 *	US-PATENT-APPL-SN-279646	c 08	N71-21042 *	US-PATENT-APPL-SN-293417	c 37	N82-26673 *
US-PATENT-APPL-SN-263829	c 05	N84-12154 *	US-PATENT-APPL-SN-279676	c 33	N89-29679 *	US-PATENT-APPL-SN-293418	c 26	N83-31795 *
US-PATENT-APPL-SN-263830	c 44	N83-28573 *	US-PATENT-APPL-SN-279677	c 31	N90-26168 *	US-PATENT-APPL-SN-293419	c 33	N82-24427 *
US-PATENT-APPL-SN-263957	c 52	N83-25346 *	US-PATENT-APPL-SN-280029	c 35	N74-15126 *	US-PATENT-APPL-SN-293725	c 89	N74-30886 *
US-PATENT-APPL-SN-264107	c 35	N90-22023 *	US-PATENT-APPL-SN-280031	c 26	N73-26752 *	US-PATENT-APPL-SN-293726	c 37	N74-21055 *
US-PATENT-APPL-SN-264268	c 31	N78-17238 *	US-PATENT-APPL-SN-280032	c 35	N74-15093 *	US-PATENT-APPL-SN-293727	c 33	N74-14956 *
US-PATENT-APPL-SN-264326	c 63	N91-31885 *	US-PATENT-APPL-SN-280151	c 27	N83-36220 *	US-PATENT-APPL-SN-293739	c 35	N74-28097 *
US-PATENT-APPL-SN-264378	c 24	N83-10117 *	US-PATENT-APPL-SN-280152	c 54	N86-22112 *	US-PATENT-APPL-SN-294727	c 73	N77-18891 *
US-PATENT-APPL-SN-264378	c 70	N84-28565 *	US-PATENT-APPL-SN-280153	c 51	N83-17045 *	US-PATENT-APPL-SN-294738	c 73	N78-28913 *
US-PATENT-APPL-SN-264380	c 44	N83-14692 *	US-PATENT-APPL-SN-280154	c 33	N83-10345 *	US-PATENT-APPL-SN-295855	c 23	N71-17802 *
US-PATENT-APPL-SN-264381	c 52	N84-28388 *	US-PATENT-APPL-SN-280155	c 24	N84-11214 *	US-PATENT-APPL-SN-296137	c 74	N84-28590 *
US-PATENT-APPL-SN-264381	c 52	N84-28389 *	US-PATENT-APPL-SN-280305	c 34	N74-23039 *	US-PATENT-APPL-SN-296622	c 44	N83-31666 *
US-PATENT-APPL-SN-264728	c 30	N70-40016 *	US-PATENT-APPL-SN-280362	c 14	N71-28935 *	US-PATENT-APPL-SN-296879	c 26	N71-18064 *
US-PATENT-APPL-SN-264729	c 33	N70-34540 *	US-PATENT-APPL-SN-280390	c 37	N74-15128 *	US-PATENT-APPL-SN-297127	c 33	N74-27705 *
US-PATENT-APPL-SN-264731	c 09	N70-41655 *	US-PATENT-APPL-SN-280580	c 12	N71-21089 *	US-PATENT-APPL-SN-297128	c 32	N74-26654 *
US-PATENT-APPL-SN-264735	c 28	N70-33265 *	US-PATENT-APPL-SN-280776	c 14	N70-40273 *	US-PATENT-APPL-SN-297436	c 33	N79-11114 *
US-PATENT-APPL-SN-264736	c 28	N70-36802 *	US-PATENT-APPL-SN-280777	c 08	N70-41961 *	US-PATENT-APPL-SN-297466	c 35	N83-24828 *
US-PATENT-APPL-SN-264993	c 05	N91-14345 *	US-PATENT-APPL-SN-281069	c 14	N70-35394 *	US-PATENT-APPL-SN-297488	c 37	N84-16561 *
US-PATENT-APPL-SN-26573	c 31	N72-22874 *	US-PATENT-APPL-SN-28175	c 21	N70-33279 *	US-PATENT-APPL-SN-297524	c 33	N84-14424 *
US-PATENT-APPL-SN-266045	c 27	N91-15403 *	US-PATENT-APPL-SN-281875	c 25	N74-18551 *	US-PATENT-APPL-SN-297524	c 33	N84-22886 *
US-PATENT-APPL-SN-266107	c 11	N71-15925 *	US-PATENT-APPL-SN-281876	c 52	N74-20726 *	US-PATENT-APPL-SN-298149	c 24	N92-16026 *
US-PATENT-APPL-SN-266253	c 04	N84-22546 *	US-PATENT-APPL-SN-281877	c 35	N74-15146 *	US-PATENT-APPL-SN-298150	c 25	N90-23517 *
US-PATENT-APPL-SN-266254	c 24	N83-13172 *	US-PATENT-APPL-SN-281908	c 25	N75-12086 *	US-PATENT-APPL-SN-298150	c 25	N91-21270 *
US-PATENT-APPL-SN-266255	c 44	N83-27344 *	US-PATENT-APPL-SN-282129	c 24	N83-25789 *	US-PATENT-APPL-SN-298156	c 37	N75-13261 *
US-PATENT-APPL-SN-266256	c 24	N83-13171 *	US-PATENT-APPL-SN-282191	c 35	N83-29651 *	US-PATENT-APPL-SN-298156	c 26	N75-19408 *
US-PATENT-APPL-SN-266687	c 32	N84-22820 *	US-PATENT-APPL-SN-282192	c 74	N83-21949 *	US-PATENT-APPL-SN-298157	c 33	N74-21850 *
US-PATENT-APPL-SN-266688	c 37	N83-36483 *	US-PATENT-APPL-SN-282298	c 33	N85-29144 *	US-PATENT-APPL-SN-298799	c 14	N71-15962 *
US-PATENT-APPL-SN-266771	c 37	N74-18127 *	US-PATENT-APPL-SN-282335	c 10	N72-17171 *	US-PATENT-APPL-SN-298800	c 14	N70-34705 *
US-PATENT-APPL-SN-266820	c 07	N74-31270 *	US-PATENT-APPL-SN-282817	c 15	N70-40156 *	US-PATENT-APPL-SN-299042	c 15	N71-15918 *
US-PATENT-APPL-SN-266822	c 32	N74-10132 *	US-PATENT-APPL-SN-282818	c 14	N71-14996 *	US-PATENT-APPL-SN-29917	c 15	N73-13465 *
US-PATENT-APPL-SN-266832	c 33	N74-10195 *	US-PATENT-APPL-SN-283092	c 35	N91-21496 *	US-PATENT-APPL-SN-29917	c 26	N74-10521 *
US-PATENT-APPL-SN-266866	c 33	N73-32818 *	US-PATENT-APPL-SN-283106	c 62	N91-14769 *	US-PATENT-APPL-SN-29917	c 37	N74-13179 *
US-PATENT-APPL-SN-266899	c 60	N74-12888 *	US-PATENT-APPL-SN-283431	c 36	N91-17360 *	US-PATENT-APPL-SN-29979	c 09	N75-15662 *
US-PATENT-APPL-SN-266911	c 36	N74-20009 *	US-PATENT-APPL-SN-283502	c 37	N74-21060 *	US-PATENT-APPL-SN-300113	c 33	N70-33344 *
US-PATENT-APPL-SN-266912	c 32	N74-19788 *	US-PATENT-APPL-SN-283673	c 33	N91-14551 *	US-PATENT-APPL-SN-300712	c 15	N70-35407 *
US-PATENT-APPL-SN-266913	c 31	N74-23065 *	US-PATENT-APPL-SN-284245	c 33	N74-17928 *	US-PATENT-APPL-SN-300957	c 33	N71-29053 *
US-PATENT-APPL-SN-266925	c 54	N74-17853 *	US-PATENT-APPL-SN-284265	c 14	N70-34799 *	US-PATENT-APPL-SN-301039	c 37	N74-27903 *
US-PATENT-APPL-SN-266928	c 26	N74-10521 *	US-PATENT-APPL-SN-284266	c 15	N71-16077 *	US-PATENT-APPL-SN-301075	c 25	N83-29324 *
US-PATENT-APPL-SN-266930	c 54	N74-12779 *	US-PATENT-APPL-SN-284286	c 44	N84-28203 *	US-PATENT-APPL-SN-301077	c 33	N84-14421 *
US-PATENT-APPL-SN-266940	c 32	N74-32598 *	US-PATENT-APPL-SN-284287	c 32	N84-27951 *	US-PATENT-APPL-SN-301078	c 08	N85-19985 *
US-PATENT-APPL-SN-266943	c 72	N74-19310 *	US-PATENT-APPL-SN-284288	c 33	N83-36356 *	US-PATENT-APPL-SN-301417	c 71	N74-21014 *
US-PATENT-APPL-SN-267146	c 37	N90-20409 *	US-PATENT-APPL-SN-284289	c 34	N84-22903 *	US-PATENT-APPL-SN-301418	c 52	N76-29894 *
US-PATENT-APPL-SN-267178	c 74	N84-11920 *	US-PATENT-APPL-SN-284290	c 33	N83-34191 *	US-PATENT-APPL-SN-301419	c 34	N76-17317 *
US-PATENT-APPL-SN-267179	c 35	N84-12445 *	US-PATENT-APPL-SN-284314	c 33	N84-16454 *	US-PATENT-APPL-SN-301683	c 07	N71-15907 *
US-PATENT-APPL-SN-267572	c 73	N74-26767 *	US-PATENT-APPL-SN-285705	c 37	N74-21056 *	US-PATENT-APPL-SN-301925	c 27	N89-25334 *
US-PATENT-APPL-SN-267768	c 70	N74-21300 *	US-PATENT-APPL-SN-286620	c 15	N71-30028 *	US-PATENT-APPL-SN-301925	c 27	N92-21711 *
US-PATENT-APPL-SN								

US-PATENT-APPL-SN-303670	c 37	N82-11469 *	#	US-PATENT-APPL-SN-318848	c 35	N77-14408 *	US-PATENT-APPL-SN-337487	c 33	N74-26977 *
US-PATENT-APPL-SN-303671	c 31	N83-31896 *		US-PATENT-APPL-SN-31885	c 10	N72-17172 *	US-PATENT-APPL-SN-337767	c 31	N90-23587 *
US-PATENT-APPL-SN-303672	c 71	N83-32516 *		US-PATENT-APPL-SN-318981	c 33	N92-16197 *	US-PATENT-APPL-SN-337816	c 35	N75-15931 *
US-PATENT-APPL-SN-304147	c 27	N90-23541 *		US-PATENT-APPL-SN-319150	c 33	N75-19519 *	US-PATENT-APPL-SN-338379	c 76	N91-21911 *
US-PATENT-APPL-SN-304149	c 31	N89-29577 *	#	US-PATENT-APPL-SN-319410	c 37	N74-20063 *	US-PATENT-APPL-SN-338386	c 15	N84-16231 *
US-PATENT-APPL-SN-304154	c 37	N91-14607 *		US-PATENT-APPL-SN-319892	c 07	N71-10609 *	US-PATENT-APPL-SN-338484	c 32	N74-20811 *
US-PATENT-APPL-SN-304155	c 74	N91-14835 *		US-PATENT-APPL-SN-319893	c 14	N70-41647 *	US-PATENT-APPL-SN-339040	c 31	N70-41373 *
US-PATENT-APPL-SN-304430	c 52	N74-27864 *		US-PATENT-APPL-SN-319894	c 03	N71-11053 *	US-PATENT-APPL-SN-339806	c 07	N74-27490 *
US-PATENT-APPL-SN-304698	c 32	N70-41579 *		US-PATENT-APPL-SN-319905	c 14	N71-10781 *	US-PATENT-APPL-SN-339821	c 17	N70-33288 *
US-PATENT-APPL-SN-304705	c 32	N74-20810 *		US-PATENT-APPL-SN-320233	c 33	N71-15625 *	US-PATENT-APPL-SN-339825	c 28	N71-15660 *
US-PATENT-APPL-SN-304749	c 11	N71-16028 *		US-PATENT-APPL-SN-320595	c 26	N70-40015 *	US-PATENT-APPL-SN-340113	c 16	N70-41578 *
US-PATENT-APPL-SN-30498	c 37	N74-21063 *		US-PATENT-APPL-SN-320621	c 27	N83-34040 *	US-PATENT-APPL-SN-340791	c 35	N74-26945 *
US-PATENT-APPL-SN-305012	c 35	N74-15094 *		US-PATENT-APPL-SN-321179	c 27	N74-21156 *	US-PATENT-APPL-SN-340862	c 33	N77-26387 *
US-PATENT-APPL-SN-305013	c 14	N73-13435 *	#	US-PATENT-APPL-SN-321180	c 05	N76-29217 *	US-PATENT-APPL-SN-340863	c 25	N76-27383 *
US-PATENT-APPL-SN-305020	c 21	N70-34295 *		US-PATENT-APPL-SN-321656	c 14	N70-41807 *	US-PATENT-APPL-SN-340864	c 31	N74-21059 *
US-PATENT-APPL-SN-305638	c 34	N74-23066 *		US-PATENT-APPL-SN-322312	c 25	N84-22709 *	US-PATENT-APPL-SN-340871	c 44	N74-19870 *
US-PATENT-APPL-SN-305639	c 37	N74-27904 *		US-PATENT-APPL-SN-322314	c 35	N84-12443 *	US-PATENT-APPL-SN-341406	c 71	N83-35781 *
US-PATENT-APPL-SN-305675	c 33	N91-31529 *		US-PATENT-APPL-SN-322316	c 31	N83-19947 *	US-PATENT-APPL-SN-341467	c 15	N70-39924 *
US-PATENT-APPL-SN-306652	c 33	N74-32712 *		US-PATENT-APPL-SN-322317	c 46	N85-21846 *	US-PATENT-APPL-SN-341621	c 54	N74-20725 *
US-PATENT-APPL-SN-307269	c 24	N71-10560 *		US-PATENT-APPL-SN-322321	c 37	N85-21651 *	US-PATENT-APPL-SN-341662	c 08	N74-10942 *
US-PATENT-APPL-SN-307270	c 10	N71-16030 *		US-PATENT-APPL-SN-322545	c 14	N71-10774 *	US-PATENT-APPL-SN-3417	c 15	N72-22490 *
US-PATENT-APPL-SN-307271	c 09	N71-22999 *		US-PATENT-APPL-SN-322565	c 37	N75-27376 *	US-PATENT-APPL-SN-3418	c 15	N72-20446 *
US-PATENT-APPL-SN-307714	c 03	N76-32140 *		US-PATENT-APPL-SN-322997	c 37	N75-15992 *	US-PATENT-APPL-SN-3418	c 15	N73-19457 *
US-PATENT-APPL-SN-307727	c 32	N74-20813 *		US-PATENT-APPL-SN-322997	c 24	N79-25143 *	US-PATENT-APPL-SN-342572	c 02	N71-16087 *
US-PATENT-APPL-SN-307728	c 34	N74-27861 *		US-PATENT-APPL-SN-322998	c 35	N74-32877 *	US-PATENT-APPL-SN-342574	c 03	N71-20904 *
US-PATENT-APPL-SN-307729	c 31	N74-27900 *		US-PATENT-APPL-SN-323182	c 03	N70-41864 *	US-PATENT-APPL-SN-342828	c 74	N85-29749 *
US-PATENT-APPL-SN-308007	c 44	N83-34448 *		US-PATENT-APPL-SN-323236	c 24	N90-21822 *	US-PATENT-APPL-SN-342857	c 72	N84-28575 *
US-PATENT-APPL-SN-308009	c 33	N83-36355 *		US-PATENT-APPL-SN-323748	c 61	N90-16411 *	US-PATENT-APPL-SN-342871	c 27	N84-33589 *
US-PATENT-APPL-SN-308201	c 27	N83-28240 *		US-PATENT-APPL-SN-324029	c 32	N74-27612 *	US-PATENT-APPL-SN-343308	c 19	N74-29410 *
US-PATENT-APPL-SN-308201	c 27	N85-21349 *		US-PATENT-APPL-SN-32496	c 15	N70-37925 *	US-PATENT-APPL-SN-343425	c 11	N70-35383 *
US-PATENT-APPL-SN-308203	c 34	N84-12406 *		US-PATENT-APPL-SN-325082	c 35	N83-29652 *	US-PATENT-APPL-SN-343426	c 07	N71-20814 *
US-PATENT-APPL-SN-308204	c 44	N83-28574 *		US-PATENT-APPL-SN-325083	c 33	N84-16456 *	US-PATENT-APPL-SN-343607	c 18	N74-27397 *
US-PATENT-APPL-SN-308918	c 27	N71-15634 *		US-PATENT-APPL-SN-325784	c 24	N76-14204 *	US-PATENT-APPL-SN-343652	c 33	N91-14537 *
US-PATENT-APPL-SN-309291	c 37	N88-23982 *		US-PATENT-APPL-SN-325885	c 35	N82-25484 *	US-PATENT-APPL-SN-343656	c 76	N91-14872 *
US-PATENT-APPL-SN-309292	c 37	N84-28085 *		US-PATENT-APPL-SN-325886	c 33	N83-34190 *	US-PATENT-APPL-SN-343760	c 07	N71-28979 *
US-PATENT-APPL-SN-309293	c 25	N83-13187 *		US-PATENT-APPL-SN-325931	c 37	N82-26674 *	US-PATENT-APPL-SN-344410	c 07	N74-33218 *
US-PATENT-APPL-SN-309354	c 11	N71-15926 *		US-PATENT-APPL-SN-325932	c 33	N84-16455 *	US-PATENT-APPL-SN-344793	c 03	N71-11058 *
US-PATENT-APPL-SN-310034	c 32	N74-30524 *		US-PATENT-APPL-SN-325933	c 76	N83-20789 *	US-PATENT-APPL-SN-344872	c 18	N91-27201 *
US-PATENT-APPL-SN-310193	c 33	N74-27682 *		US-PATENT-APPL-SN-326198	c 35	N75-12272 *	US-PATENT-APPL-SN-344877	c 24	N90-15148 *
US-PATENT-APPL-SN-310506	c 10	N71-16042 *		US-PATENT-APPL-SN-326298	c 14	N71-22765 *	US-PATENT-APPL-SN-345372	c 33	N74-22814 *
US-PATENT-APPL-SN-310507	c 07	N71-11298 *		US-PATENT-APPL-SN-326299	c 26	N71-17818 *	US-PATENT-APPL-SN-346356	c 14	N70-41676 *
US-PATENT-APPL-SN-310615	c 37	N74-27901 *		US-PATENT-APPL-SN-326326	c 35	N74-32879 *	US-PATENT-APPL-SN-346361	c 37	N74-21064 *
US-PATENT-APPL-SN-310616	c 35	N74-21017 *		US-PATENT-APPL-SN-326327	c 44	N74-27519 *	US-PATENT-APPL-SN-346372	c 35	N75-12270 *
US-PATENT-APPL-SN-310624	c 33	N74-17929 *		US-PATENT-APPL-SN-326364	c 51	N75-13502 *	US-PATENT-APPL-SN-346483	c 37	N74-32921 *
US-PATENT-APPL-SN-310714	c 33	N82-11360 *	#	US-PATENT-APPL-SN-32664	c 11	N72-25287 *	US-PATENT-APPL-SN-346483	c 37	N76-15461 *
US-PATENT-APPL-SN-310992	c 74	N91-26918 *		US-PATENT-APPL-SN-32665	c 14	N72-22444 *	US-PATENT-APPL-SN-347101	c 09	N70-41675 *
US-PATENT-APPL-SN-311024	c 60	N91-31810 *		US-PATENT-APPL-SN-326756	c 71	N91-14808 *	US-PATENT-APPL-SN-347558	c 27	N91-31307 *
US-PATENT-APPL-SN-311175	c 52	N74-22771 *		US-PATENT-APPL-SN-326757	c 24	N90-23493 *	US-PATENT-APPL-SN-347591	c 25	N91-31258 *
US-PATENT-APPL-SN-311234	c 35	N74-23040 *		US-PATENT-APPL-SN-326757	c 24	N91-17145 *	US-PATENT-APPL-SN-347626	c 15	N70-40204 *
US-PATENT-APPL-SN-311376	c 76	N92-21499 *		US-PATENT-APPL-SN-326766	c 35	N90-22024 *	US-PATENT-APPL-SN-347952	c 37	N75-13265 *
US-PATENT-APPL-SN-311387	c 23	N71-30027 *		US-PATENT-APPL-SN-326820	c 35	N91-17350 *	US-PATENT-APPL-SN-347953	c 05	N75-24716 *
US-PATENT-APPL-SN-311551	c 23	N91-14418 *		US-PATENT-APPL-SN-326863	c 37	N91-17387 *	US-PATENT-APPL-SN-347960	c 03	N70-39930 *
US-PATENT-APPL-SN-311552	c 33	N92-16196 *		US-PATENT-APPL-SN-327163	c 03	N71-20895 *	US-PATENT-APPL-SN-348223	c 34	N91-31596 *
US-PATENT-APPL-SN-312269	c 28	N71-14043 *		US-PATENT-APPL-SN-327565	c 02	N70-36825 *	US-PATENT-APPL-SN-348422	c 27	N76-15111 *
US-PATENT-APPL-SN-31242	c 28	N70-33374 *		US-PATENT-APPL-SN-327921	c 54	N75-13531 *	US-PATENT-APPL-SN-348600	c 28	N71-29154 *
US-PATENT-APPL-SN-312443	c 10	N71-21473 *		US-PATENT-APPL-SN-327969	c 35	N75-13213 *	US-PATENT-APPL-SN-348787	c 33	N75-19521 *
US-PATENT-APPL-SN-313132	c 28	N70-34175 *		US-PATENT-APPL-SN-328140	c 18	N71-21651 *	US-PATENT-APPL-SN-349778	c 09	N70-40234 *
US-PATENT-APPL-SN-313135	c 15	N70-35087 *		US-PATENT-APPL-SN-328392	c 27	N90-23545 *	US-PATENT-APPL-SN-349781	c 31	N71-10547 *
US-PATENT-APPL-SN-313136	c 09	N71-12540 *		US-PATENT-APPL-SN-328392	c 23	N91-14419 *	US-PATENT-APPL-SN-349782	c 09	N71-16086 *
US-PATENT-APPL-SN-313381	c 35	N74-15091 *		US-PATENT-APPL-SN-328760	c 31	N83-35177 *	US-PATENT-APPL-SN-34989	c 36	N74-13205 *
US-PATENT-APPL-SN-313839	c 37	N90-21390 *		US-PATENT-APPL-SN-328792	c 35	N75-12273 *	US-PATENT-APPL-SN-350249	c 36	N75-15028 *
US-PATENT-APPL-SN-314074	c 15	N71-16079 *		US-PATENT-APPL-SN-329237	c 33	N74-34638 *	US-PATENT-APPL-SN-350250	c 27	N75-27160 *
US-PATENT-APPL-SN-314570	c 10	N71-28960 *		US-PATENT-APPL-SN-329243	c 28	N74-33209 *	US-PATENT-APPL-SN-350300	c 31	N74-32920 *
US-PATENT-APPL-SN-314572	c 14	N71-15992 *		US-PATENT-APPL-SN-329331	c 15	N71-15906 *	US-PATENT-APPL-SN-350471	c 35	N85-29213 *
US-PATENT-APPL-SN-314656	c 51	N77-25769 *		US-PATENT-APPL-SN-329595	c 05	N70-41329 *	US-PATENT-APPL-SN-350472	c 33	N84-14424 *
US-PATENT-APPL-SN-314702	c 71	N84-16940 *		US-PATENT-APPL-SN-329958	c 33	N74-22885 *	US-PATENT-APPL-SN-350473	c 07	N84-22559 *
US-PATENT-APPL-SN-314928	c 32	N84-34651 *		US-PATENT-APPL-SN-330209	c 15	N70-41646 *	US-PATENT-APPL-SN-350474	c 35	N84-22928 *
US-PATENT-APPL-SN-314929	c 71	N83-32515 *		US-PATENT-APPL-SN-330210	c 14	N71-21090 *	US-PATENT-APPL-SN-350475	c 35	N84-28017 *
US-PATENT-APPL-SN-315048	c 34	N74-27730 *		US-PATENT-APPL-SN-331323	c 07	N71-16088 *	US-PATENT-APPL-SN-350476	c 26	N84-22734 *
US-PATENT-APPL-SN-315069	c 33	N74-20862 *		US-PATENT-APPL-SN-331324	c 05	N70-35152 *	US-PATENT-APPL-SN-350477	c 35	N84-33765 *
US-PATENT-APPL-SN-315070	c 60	N76-23850 *		US-PATENT-APPL-SN-331551	c 60	N92-16563 *	US-PATENT-APPL-SN-350813	c 32	N89-28684 *
US-PATENT-APPL-SN-315096	c 12	N70-40124 *		US-PATENT-APPL-SN-331559	c 10	N72-11256 *	US-PATENT-APPL-SN-350813	c 32	N92-21712 *
US-PATENT-APPL-SN-3151	c 05	N72-27102 *		US-PATENT-APPL-SN-331759	c 07	N76-18117 *	US-PATENT-APPL-SN-351259	c 15	N71-10672 *
US-PATENT-APPL-SN-315278	c 51	N83-28849 *		US-PATENT-APPL-SN-331760	c 35	N74-27860 *	US-PATENT-APPL-SN-351929	c 33	N75-14957 *
US-PATENT-APPL-SN-315583	c 35	N84-33769 *		US-PATENT-APPL-SN-332123	c 27	N80-32514 *	US-PATENT-APPL-SN-351950	c 33	N75-27249 *
US-PATENT-APPL-SN-315584	c 23	N84-16255 *		US-PATENT-APPL-SN-332313	c 21	N71-10678 *	US-PATENT-APPL-SN-352381	c 20	N75-18310 *
US-PATENT-APPL-SN-315587	c 25	N83-31743 *		US-PATENT-APPL-SN-332339	c 07	N71-11284 *	US-PATENT-APPL-SN-352381	c 37	N76-14461 *
US-PATENT-APPL-SN-315588	c 05	N84-22551 *		US-PATENT-APPL-SN-332677	c 33	N90-21951 *	US-PATENT-APPL-SN-352382	c 60	N75-13539 *
US-PATENT-APPL-SN-316477	c 18	N71-10772 *		US-PATENT-APPL-SN-333535	c 74	N83-36898 *	US-PATENT-APPL-SN-352383	c 35	N75-16783 *
US-PATENT-APPL-SN-316618	c 07	N74-15453 *		US-PATENT-APPL-SN-333537	c 44	N83-32176 *	US-PATENT-APPL-SN-352400	c 26	N71-10607 *
US-PATENT-APPL-SN-31702	c 16	N73-16536 *		US-PATENT-APPL-SN-333766	c 31	N71-15663 *	US-PATENT-APPL-SN-352821	c 44	N84-28205 *
US-PATENT-APPL-SN-31703	c 09	N72-21244 *		US-PATENT-APPL-SN-333770	c 21	N71-15583 *	US-PATENT-APPL-SN-352827	c 35	N84-28015 *
US-PATENT-APPL-SN-317310	c 36	N77-25502 *		US-PATENT-APPL-SN-333912	c 32	N74-17970 *	US-PATENT-APPL-SN-352827	c 35	N85-21598 *
US-PATENT-APPL-SN-317389	c 18	N70-41583 *		US-PATENT-APPL-SN-33398	c 14	N70-35587 *	US-PATENT-APPL-SN-352831	c 35	N84-16523 *
US-PATENT-APPL-SN-317391	c 15	N71-15968 *		US-PATENT-APPL-SN-334349	c 35	N75-19611 *	US-PATENT-APPL-SN-353162	c 33	N75-26243 *
US-PATENT-APPL-SN-317567	c 36	N75-15029 *		US-PATENT-APPL-SN-334672	c 14	N70-41330 *	US-PATENT-APPL-SN-353411	c 37	N89-28846 *
US-PATENT-APPL-SN-317658	c 36	N84-16542 *		US-PATENT-APPL-SN-334678	c 11	N71-10777 *	US-PATENT-APPL-SN-353632	c 15	N71-13789 *
US-PATENT-APPL-SN-317776	c 51	N91-13860 *	#	US-PATENT-APPL-SN-335036	c 45	N84-12654 *	US-PATENT-APPL-SN-353634	c 15	N70-41829 *
US-PATENT-APPL-SN-317931	c 51	N90-18852 *	#	US-PATENT-APPL-SN-335201	c 33	N74-17927 *	US-PATENT-APPL-SN-353637	c 02	N70-34160 *
US-PATENT-APPL-SN-317977	c 25	N83-36118 *		US-PATENT-APPL-SN-33535	c 06	N72-17093 *	US-PATENT-APPL-SN-353644	c 07	N71-23098 *
US-PATENT-APPL-SN-318151	c 75	N74-30156 *		US-PATENT-APPL-SN-335441	c 14	N71-32368 *	US-PATENT-APPL-SN-353645	c 15	N71-15922 *
US-P									

US-PATENT-APPL-SN-354408	c 35	N75-19614 *	US-PATENT-APPL-SN-367606	c 75	N75-13625 *	US-PATENT-APPL-SN-383063	c 37	N84-12493 *
US-PATENT-APPL-SN-354611	c 25	N74-26947 *	US-PATENT-APPL-SN-367606	c 75	N76-17951 *	US-PATENT-APPL-SN-383068	c 44	N84-34792 *
US-PATENT-APPL-SN-354612	c 35	N75-30504 *	US-PATENT-APPL-SN-368123	c 09	N71-10618 *	US-PATENT-APPL-SN-383083	c 33	N84-16453 *
US-PATENT-APPL-SN-355126	c 17	N71-15644 *	US-PATENT-APPL-SN-368187	c 54	N84-11758 *	US-PATENT-APPL-SN-383086	c 36	N85-21639 *
US-PATENT-APPL-SN-355129	c 14	N70-41957 *	US-PATENT-APPL-SN-368188	c 33	N84-33663 *	US-PATENT-APPL-SN-383384	c 06	N84-27733 *
US-PATENT-APPL-SN-355130	c 15	N70-40354 *	US-PATENT-APPL-SN-368189	c 18	N84-22605 *	US-PATENT-APPL-SN-384010	c 10	N71-28859 *
US-PATENT-APPL-SN-356488	c 08	N71-19544 *	US-PATENT-APPL-SN-36819	c 23	N72-22673 *	US-PATENT-APPL-SN-384547	c 36	N85-29264 *
US-PATENT-APPL-SN-356554	c 24	N75-33181 *	US-PATENT-APPL-SN-36926	c 28	N72-23810 *	US-PATENT-APPL-SN-384773	c 15	N76-14158 *
US-PATENT-APPL-SN-356555	c 37	N75-19685 *	US-PATENT-APPL-SN-369334	c 21	N71-22880 *	US-PATENT-APPL-SN-384811	c 15	N71-10809 *
US-PATENT-APPL-SN-356664	c 31	N75-12161 *	US-PATENT-APPL-SN-369336	c 09	N71-10659 *	US-PATENT-APPL-SN-385013	c 35	N75-19613 *
US-PATENT-APPL-SN-356692	c 15	N70-41371 *	US-PATENT-APPL-SN-369337	c 15	N70-41811 *	US-PATENT-APPL-SN-385059	c 33	N77-21315 *
US-PATENT-APPL-SN-357126	c 35	N74-34857 *	US-PATENT-APPL-SN-369338	c 08	N71-28925 *	US-PATENT-APPL-SN-385220	c 36	N85-30305 *
US-PATENT-APPL-SN-357312	c 27	N76-16229 *	US-PATENT-APPL-SN-369403	c 35	N91-14588 *	US-PATENT-APPL-SN-385520	c 14	N71-23037 *
US-PATENT-APPL-SN-357334	c 03	N71-12258 *	US-PATENT-APPL-SN-369490	c 19	N91-14412 *	US-PATENT-APPL-SN-385522	c 34	N75-33342 *
US-PATENT-APPL-SN-357336	c 03	N71-12259 *	US-PATENT-APPL-SN-369640	c 32	N70-41370 *	US-PATENT-APPL-SN-385526	c 12	N71-16031 *
US-PATENT-APPL-SN-357337	c 15	N71-10782 *	US-PATENT-APPL-SN-3696	c 10	N72-20224 *	US-PATENT-APPL-SN-385527	c 31	N71-17729 *
US-PATENT-APPL-SN-357340	c 23	N71-15673 *	US-PATENT-APPL-SN-370134	c 30	N70-40353 *	US-PATENT-APPL-SN-385530	c 09	N71-10798 *
US-PATENT-APPL-SN-357757	c 14	N91-21176 *	US-PATENT-APPL-SN-370135	c 11	N70-41677 *	US-PATENT-APPL-SN-386172	c 24	N91-14430 *
US-PATENT-APPL-SN-357758	c 76	N91-28014 *	US-PATENT-APPL-SN-370255	c 33	N75-18477 *	US-PATENT-APPL-SN-386174	c 75	N90-10717 *
US-PATENT-APPL-SN-357759	c 62	N92-15620 *	US-PATENT-APPL-SN-370271	c 32	N75-24981 *	US-PATENT-APPL-SN-386175	c 35	N89-28793 *
US-PATENT-APPL-SN-357938	c 45	N91-14662 *	US-PATENT-APPL-SN-37050	c 33	N74-26732 *	US-PATENT-APPL-SN-386467	c 14	N70-40233 *
US-PATENT-APPL-SN-358027	c 35	N91-14587 *	US-PATENT-APPL-SN-370582	c 18	N76-14186 *	US-PATENT-APPL-SN-386789	c 35	N75-12271 *
US-PATENT-APPL-SN-358028	c 37	N89-28842 *	US-PATENT-APPL-SN-370872	c 37	N74-32918 *	US-PATENT-APPL-SN-386790	c 09	N75-12968 *
US-PATENT-APPL-SN-358029	c 37	N91-32508 *	US-PATENT-APPL-SN-370989	c 23	N71-29049 *	US-PATENT-APPL-SN-386793	c 35	N75-25124 *
US-PATENT-APPL-SN-358088	c 35	N84-33767 *	US-PATENT-APPL-SN-370999	c 74	N78-15879 *	US-PATENT-APPL-SN-386800	c 15	N71-21404 *
US-PATENT-APPL-SN-358089	c 71	N84-23233 *	US-PATENT-APPL-SN-371322	c 44	N76-14600 *	US-PATENT-APPL-SN-387094	c 37	N77-19457 *
US-PATENT-APPL-SN-358127	c 05	N71-12335 *	US-PATENT-APPL-SN-371351	c 76	N84-35113 *	US-PATENT-APPL-SN-387095	c 37	N75-33395 *
US-PATENT-APPL-SN-358213	c 52	N92-11621 *	US-PATENT-APPL-SN-371352	c 52	N84-11744 *	US-PATENT-APPL-SN-387266	c 35	N75-27328 *
US-PATENT-APPL-SN-358398	c 36	N84-22944 *	US-PATENT-APPL-SN-371856	c 15	N70-42033 *	US-PATENT-APPL-SN-387332	c 15	N70-33226 *
US-PATENT-APPL-SN-359039	c 32	N74-30523 *	US-PATENT-APPL-SN-371857	c 07	N70-41680 *	US-PATENT-APPL-SN-387342	c 37	N76-18457 *
US-PATENT-APPL-SN-359156	c 14	N75-24794 *	US-PATENT-APPL-SN-372148	c 35	N74-26949 *	US-PATENT-APPL-SN-387646	c 37	N85-30336 *
US-PATENT-APPL-SN-359157	c 35	N74-18090 *	US-PATENT-APPL-SN-372149	c 37	N75-15050 *	US-PATENT-APPL-SN-387647	c 33	N85-34333 *
US-PATENT-APPL-SN-359382	c 32	N85-34327 *	US-PATENT-APPL-SN-372279	c 35	N84-28019 *	US-PATENT-APPL-SN-387648	c 37	N85-21650 *
US-PATENT-APPL-SN-359388	c 44	N83-32177 *	US-PATENT-APPL-SN-372438	c 30	N71-17788 *	US-PATENT-APPL-SN-387649	c 09	N85-19990 *
US-PATENT-APPL-SN-359459	c 36	N89-28817 *	US-PATENT-APPL-SN-372648	c 27	N71-16348 *	US-PATENT-APPL-SN-387728	c 37	N84-28084 *
US-PATENT-APPL-SN-359460	c 36	N89-28816 *	US-PATENT-APPL-SN-372727	c 31	N70-36845 *	US-PATENT-APPL-SN-387928	c 76	N90-17456 *
US-PATENT-APPL-SN-359532	c 15	N71-28959 *	US-PATENT-APPL-SN-372730	c 28	N71-28850 *	US-PATENT-APPL-SN-387928	c 76	N92-22040 *
US-PATENT-APPL-SN-359626	c 35	N84-28018 *	US-PATENT-APPL-SN-373587	c 33	N74-32711 *	US-PATENT-APPL-SN-387928	c 76	N92-22041 *
US-PATENT-APPL-SN-359627	c 35	N82-26631 *	US-PATENT-APPL-SN-373588	c 33	N75-19515 *	US-PATENT-APPL-SN-388023	c 10	N70-41964 *
US-PATENT-APPL-SN-359627	c 35	N85-29214 *	US-PATENT-APPL-SN-373591	c 31	N71-15692 *	US-PATENT-APPL-SN-388024	c 32	N71-17609 *
US-PATENT-APPL-SN-359801	c 74	N91-27957 *	US-PATENT-APPL-SN-373770	c 35	N84-34705 *	US-PATENT-APPL-SN-388114	c 15	N72-11385 *
US-PATENT-APPL-SN-359957	c 07	N74-32418 *	US-PATENT-APPL-SN-373771	c 35	N84-22934 *	US-PATENT-APPL-SN-38816	c 70	N74-13436 *
US-PATENT-APPL-SN-359958	c 37	N74-26976 *	US-PATENT-APPL-SN-373839	c 33	N84-22887 *	US-PATENT-APPL-SN-38816	c 74	N78-15879 *
US-PATENT-APPL-SN-360180	c 17	N71-16026 *	US-PATENT-APPL-SN-374421	c 27	N76-24405 *	US-PATENT-APPL-SN-388264	c 37	N91-14614 *
US-PATENT-APPL-SN-360182	c 31	N70-36654 *	US-PATENT-APPL-SN-374422	c 32	N75-24982 *	US-PATENT-APPL-SN-388966	c 31	N70-41855 *
US-PATENT-APPL-SN-360878	c 03	N71-11051 *	US-PATENT-APPL-SN-374423	c 36	N75-31427 *	US-PATENT-APPL-SN-388967	c 10	N71-23271 *
US-PATENT-APPL-SN-361200	c 18	N89-28556 *	US-PATENT-APPL-SN-374424	c 74	N75-12732 *	US-PATENT-APPL-SN-388916	c 18	N75-27041 *
US-PATENT-APPL-SN-361215	c 27	N84-14323 *	US-PATENT-APPL-SN-374441	c 35	N75-19616 *	US-PATENT-APPL-SN-389929	c 33	N75-25040 *
US-PATENT-APPL-SN-361216	c 35	N84-28016 *	US-PATENT-APPL-SN-374583	c 33	N74-29556 *	US-PATENT-APPL-SN-390049	c 37	N76-16446 *
US-PATENT-APPL-SN-361217	c 71	N85-22104 *	US-PATENT-APPL-SN-374810	c 27	N80-32514 *	US-PATENT-APPL-SN-390049	c 44	N76-29700 *
US-PATENT-APPL-SN-361479	c 14	N91-21175 *	US-PATENT-APPL-SN-375401	c 17	N71-16025 *	US-PATENT-APPL-SN-390250	c 21	N70-41856 *
US-PATENT-APPL-SN-361531	c 35	N89-28795 *	US-PATENT-APPL-SN-375405	c 31	N71-15675 *	US-PATENT-APPL-SN-390251	c 07	N71-23026 *
US-PATENT-APPL-SN-361666	c 33	N75-30428 *	US-PATENT-APPL-SN-375620	c 43	N85-21723 *	US-PATENT-APPL-SN-390466	c 24	N75-13032 *
US-PATENT-APPL-SN-361711	c 24	N82-26387 *	US-PATENT-APPL-SN-375674	c 28	N70-41582 *	US-PATENT-APPL-SN-390468	c 36	N75-19652 *
US-PATENT-APPL-SN-361711	c 24	N84-16262 *	US-PATENT-APPL-SN-375680	c 10	N71-28739 *	US-PATENT-APPL-SN-391343	c 05	N69-21473 *
US-PATENT-APPL-SN-361906	c 33	N74-20861 *	US-PATENT-APPL-SN-375682	c 31	N70-41588 *	US-PATENT-APPL-SN-391692	c 23	N91-14419 *
US-PATENT-APPL-SN-361907	c 35	N74-27865 *	US-PATENT-APPL-SN-375684	c 44	N85-21769 *	US-PATENT-APPL-SN-39185	c 16	N72-25485 *
US-PATENT-APPL-SN-362145	c 32	N75-26194 *	US-PATENT-APPL-SN-375784	c 24	N85-21266 *	US-PATENT-APPL-SN-391896	c 43	N91-32546 *
US-PATENT-APPL-SN-362146	c 33	N75-18479 *	US-PATENT-APPL-SN-375784	c 24	N85-35233 *	US-PATENT-APPL-SN-391911	c 54	N91-14724 *
US-PATENT-APPL-SN-362261	c 14	N73-32325 *	US-PATENT-APPL-SN-376306	c 25	N84-12262 *	US-PATENT-APPL-SN-392092	c 51	N84-28361 *
US-PATENT-APPL-SN-362278	c 37	N78-17385 *	US-PATENT-APPL-SN-376487	c 25	N89-28603 *	US-PATENT-APPL-SN-392093	c 33	N88-23941 *
US-PATENT-APPL-SN-363130	c 25	N81-19244 *	US-PATENT-APPL-SN-376488	c 75	N91-25875 *	US-PATENT-APPL-SN-392094	c 37	N85-29283 *
US-PATENT-APPL-SN-363348	c 05	N70-41581 *	US-PATENT-APPL-SN-376738	c 35	N90-10415 *	US-PATENT-APPL-SN-392096	c 02	N84-11136 *
US-PATENT-APPL-SN-363653	c 07	N70-41331 *	US-PATENT-APPL-SN-376738	c 35	N92-21723 *	US-PATENT-APPL-SN-392103	c 44	N84-28204 *
US-PATENT-APPL-SN-363654	c 07	N70-41372 *	US-PATENT-APPL-SN-377146	c 14	N71-23041 *	US-PATENT-APPL-SN-392104	c 37	N85-20338 *
US-PATENT-APPL-SN-363691	c 20	N76-14190 *	US-PATENT-APPL-SN-377777	c 32	N70-42003 *	US-PATENT-APPL-SN-392165	c 71	N91-27913 *
US-PATENT-APPL-SN-363807	c 35	N91-27522 *	US-PATENT-APPL-SN-377780	c 11	N71-10604 *	US-PATENT-APPL-SN-392166	c 24	N92-18561 *
US-PATENT-APPL-SN-363815	c 33	N91-21434 *	US-PATENT-APPL-SN-377784	c 28	N70-41311 *	US-PATENT-APPL-SN-392174	c 54	N91-26747 *
US-PATENT-APPL-SN-364041	c 76	N85-30923 *	US-PATENT-APPL-SN-377891	c 52	N84-34913 *	US-PATENT-APPL-SN-392228	c 54	N91-14723 *
US-PATENT-APPL-SN-364072	c 70	N84-28565 *	US-PATENT-APPL-SN-377892	c 33	N83-24763 *	US-PATENT-APPL-SN-392235	c 37	N91-21542 *
US-PATENT-APPL-SN-364092	c 76	N83-35888 *	US-PATENT-APPL-SN-378080	c 12	N71-24692 *	US-PATENT-APPL-SN-392239	c 33	N91-14552 *
US-PATENT-APPL-SN-364093	c 37	N83-34323 *	US-PATENT-APPL-SN-378126	c 44	N76-18643 *	US-PATENT-APPL-SN-392823	c 25	N74-33378 *
US-PATENT-APPL-SN-364094	c 37	N84-28083 *	US-PATENT-APPL-SN-378127	c 44	N76-18641 *	US-PATENT-APPL-SN-392944	c 76	N85-29800 *
US-PATENT-APPL-SN-364097	c 71	N82-27086 *	US-PATENT-APPL-SN-378533	c 37	N84-11497 *	US-PATENT-APPL-SN-392965	c 18	N71-22998 *
US-PATENT-APPL-SN-364126	c 36	N84-22943 *	US-PATENT-APPL-SN-378535	c 74	N84-23248 *	US-PATENT-APPL-SN-392969	c 09	N71-23573 *
US-PATENT-APPL-SN-364743	c 37	N91-14608 *	US-PATENT-APPL-SN-378548	c 54	N91-31803 *	US-PATENT-APPL-SN-392970	c 32	N70-41367 *
US-PATENT-APPL-SN-364774	c 37	N91-14616 *	US-PATENT-APPL-SN-379019	c 09	N75-12969 *	US-PATENT-APPL-SN-392973	c 07	N71-23001 *
US-PATENT-APPL-SN-364867	c 09	N71-10673 *	US-PATENT-APPL-SN-379049	c 31	N75-13111 *	US-PATENT-APPL-SN-392992	c 15	N71-23052 *
US-PATENT-APPL-SN-365244	c 37	N78-17386 *	US-PATENT-APPL-SN-379072	c 15	N71-16078 *	US-PATENT-APPL-SN-39342	c 09	N72-25252 *
US-PATENT-APPL-SN-36531	c 07	N72-25174 *	US-PATENT-APPL-SN-379417	c 02	N70-41863 *	US-PATENT-APPL-SN-39343	c 34	N74-18552 *
US-PATENT-APPL-SN-36534	c 21	N73-14692 *	US-PATENT-APPL-SN-379601	c 71	N85-30765 *	US-PATENT-APPL-SN-39344	c 14	N72-25409 *
US-PATENT-APPL-SN-3654	c 35	N77-27367 *	US-PATENT-APPL-SN-379602	c 44	N84-23018 *	US-PATENT-APPL-SN-393451	c 02	N70-42016 *
US-PATENT-APPL-SN-365644	c 35	N74-26946 *	US-PATENT-APPL-SN-379768	c 28	N71-10780 *	US-PATENT-APPL-SN-393456	c 33	N83-16633 *
US-PATENT-APPL-SN-365950	c 27	N83-18908 *	US-PATENT-APPL-SN-379771	c 33	N71-28852 *	US-PATENT-APPL-SN-393461	c 31	N71-17691 *
US-PATENT-APPL-SN-366025	c 27	N84-22744 *	US-PATENT-APPL-SN-380046	c 25	N76-29379 *	US-PATENT-APPL-SN-393464	c 23	N71-21821 *
US-PATENT-APPL-SN-366103	c 76	N84-35112 *	US-PATENT-APPL-SN-380630	c 37	N75-21631 *	US-PATENT-APPL-SN-393523	c 12	N72-24774 *
US-PATENT-APPL-SN-366205	c 35	N91-14590 *	US-PATENT-APPL-SN-380960	c 15	N70-41993 *	US-PATENT-APPL-SN-393524	c 60	N76-21914 *
US-PATENT-APPL-SN-366226	c 10	N71-16057 *	US-PATENT-APPL-SN-380965	c 10	N71-23033 *	US-PATENT-APPL-SN-393525	c 31	N74-32917 *
US-PATENT-APPL-SN-366957	c 27	N90-10261 *	US-PATENT-APPL-SN-381239	c 09	N91-21157 *	US-PATENT-APPL-SN-393526	c 77	N75-20139 *
US-PATENT-APPL-SN-367132	c 32	N85-21427 *	US-PATENT-APPL-SN-381240	c 27	N91-25296 *	US-PATENT-APPL-SN-393527	c 15	N75-13007 *
US-PATENT-APPL-SN-367134	c 44	N83-34449 *	US-PATENT-APPL-SN-381940	c 09	N71-20705 *	US-PATENT-APPL-SN-393528	c 36	N75-19654 *
US-PATENT-APPL-SN-367136	c 35	N85-21596 *	US-PATENT-APPL-SN-382261	c 35	N76-14430 *	US-PATENT-APPL-SN-393581	c 54	N84-23113 *
US-PATENT-APPL-SN-367187	c 04	N84-14132 *	US-PATENT-APPL-SN-382262	c 37	N74-21058 *	US-PATENT-APPL-SN-393582	c 37	N85-21649 *
US-PATENT-APPL-SN-36								

REPORT NUMBER INDEX

US-PATENT-APPL-SN-437611

US-PATENT-APPL-SN-393586	c 54	N84-28484 *	US-PATENT-APPL-SN-409679	c 33	N82-33634 * #	US-PATENT-APPL-SN-423089	c 37	N90-27114 * #
US-PATENT-APPL-SN-393588	c 25	N84-16276 *	US-PATENT-APPL-SN-409679	c 33	N84-22884 *	US-PATENT-APPL-SN-423412	c 08	N71-22897 *
US-PATENT-APPL-SN-394149	c 35	N75-25123 *	US-PATENT-APPL-SN-409680	c 35	N85-20294 *	US-PATENT-APPL-SN-424013	c 34	N76-27517 *
US-PATENT-APPL-SN-394206	c 76	N75-25730 *	US-PATENT-APPL-SN-409990	c 35	N75-27330 *	US-PATENT-APPL-SN-424038	c 24	N75-30260 *
US-PATENT-APPL-SN-394207	c 25	N78-27226 *	US-PATENT-APPL-SN-409991	c 33	N75-13139 *	US-PATENT-APPL-SN-424153	c 15	N71-21234 *
US-PATENT-APPL-SN-394280	c 54	N82-29002 *	US-PATENT-APPL-SN-410325	c 18	N71-23088 *	US-PATENT-APPL-SN-424156	c 02	N71-23007 *
US-PATENT-APPL-SN-394343	c 52	N91-14709 *	US-PATENT-APPL-SN-410326	c 09	N71-21449 *	US-PATENT-APPL-SN-424157	c 28	N70-41275 *
US-PATENT-APPL-SN-394638	c 28	N70-34162 *	US-PATENT-APPL-SN-410330	c 26	N71-23043 *	US-PATENT-APPL-SN-425096	c 05	N71-23080 *
US-PATENT-APPL-SN-394898	c 07	N77-28118 *	US-PATENT-APPL-SN-410331	c 02	N70-41589 *	US-PATENT-APPL-SN-425201	c 04	N86-19304 *
US-PATENT-APPL-SN-395348	c 15	N71-22713 *	US-PATENT-APPL-SN-410332	c 14	N71-23039 *	US-PATENT-APPL-SN-425202	c 74	N85-34629 *
US-PATENT-APPL-SN-395493	c 37	N79-13364 *	US-PATENT-APPL-SN-410572	c 27	N90-15259 * #	US-PATENT-APPL-SN-425203	c 35	N84-22930 *
US-PATENT-APPL-SN-395495	c 54	N75-27759 *	US-PATENT-APPL-SN-410576	c 24	N91-31236 *	US-PATENT-APPL-SN-425204	c 32	N85-29117 *
US-PATENT-APPL-SN-395687	c 37	N75-18573 *	US-PATENT-APPL-SN-411572	c 35	N75-15932 *	US-PATENT-APPL-SN-425205	c 35	N85-21595 *
US-PATENT-APPL-SN-395868	c 33	N75-19516 *	US-PATENT-APPL-SN-411944	c 15	N70-41629 *	US-PATENT-APPL-SN-425362	c 15	N71-10658 *
US-PATENT-APPL-SN-395895	c 36	N78-17366 *	US-PATENT-APPL-SN-411945	c 18	N71-23047 *	US-PATENT-APPL-SN-425363	c 09	N71-20658 *
US-PATENT-APPL-SN-396262	c 31	N91-14508 *	US-PATENT-APPL-SN-411949	c 27	N71-15635 *	US-PATENT-APPL-SN-425364	c 33	N71-15623 *
US-PATENT-APPL-SN-396263	c 35	N90-23712 *	US-PATENT-APPL-SN-412039	c 06	N84-34443 *	US-PATENT-APPL-SN-425365	c 32	N71-21045 *
US-PATENT-APPL-SN-396443	c 15	N71-15986 *	US-PATENT-APPL-SN-412079	c 37	N75-13266 *	US-PATENT-APPL-SN-425972	c 03	N71-23006 *
US-PATENT-APPL-SN-396444	c 10	N71-20782 *	US-PATENT-APPL-SN-412080	c 36	N75-19653 *	US-PATENT-APPL-SN-426155	c 33	N75-15874 *
US-PATENT-APPL-SN-396726	c 35	N91-15511 *	US-PATENT-APPL-SN-412379	c 32	N77-10392 *	US-PATENT-APPL-SN-426345	c 25	N90-15161 * #
US-PATENT-APPL-SN-396726	c 35	N91-21495 *	US-PATENT-APPL-SN-413101	c 07	N86-20389 *	US-PATENT-APPL-SN-426345	c 25	N91-32196 *
US-PATENT-APPL-SN-397281	c 76	N83-34796 *	US-PATENT-APPL-SN-41345	c 09	N72-29172 *	US-PATENT-APPL-SN-426405	c 25	N75-26043 *
US-PATENT-APPL-SN-397476	c 34	N75-12222 *	US-PATENT-APPL-SN-41346	c 15	N72-24522 *	US-PATENT-APPL-SN-426455	c 28	N71-15661 *
US-PATENT-APPL-SN-397477	c 33	N75-19517 *	US-PATENT-APPL-SN-41347	c 09	N72-25256 *	US-PATENT-APPL-SN-426702	c 15	N70-42034 *
US-PATENT-APPL-SN-397478	c 52	N75-33640 *	US-PATENT-APPL-SN-41348	c 09	N72-23173 *	US-PATENT-APPL-SN-427395	c 54	N75-27760 *
US-PATENT-APPL-SN-39755	c 08	N72-21198 *	US-PATENT-APPL-SN-413661	c 15	N71-23024 *	US-PATENT-APPL-SN-427775	c 27	N72-23726 *
US-PATENT-APPL-SN-397665	c 10	N70-41991 *	US-PATENT-APPL-SN-413662	c 09	N70-41929 *	US-PATENT-APPL-SN-427990	c 06	N71-23527 *
US-PATENT-APPL-SN-398131	c 05	N70-41297 *	US-PATENT-APPL-SN-414042	c 35	N79-17192 *	US-PATENT-APPL-SN-428444	c 44	N76-18642 *
US-PATENT-APPL-SN-398132	c 15	N70-41808 *	US-PATENT-APPL-SN-414043	c 27	N76-32315 *	US-PATENT-APPL-SN-428444	c 44	N76-29704 *
US-PATENT-APPL-SN-398885	c 27	N76-15310 *	US-PATENT-APPL-SN-41404	c 03	N73-20039 *	US-PATENT-APPL-SN-428882	c 31	N70-41948 *
US-PATENT-APPL-SN-398886	c 07	N75-24736 *	US-PATENT-APPL-SN-414106	c 54	N84-16803 *	US-PATENT-APPL-SN-428887	c 33	N71-29051 *
US-PATENT-APPL-SN-398901	c 37	N75-25186 *	US-PATENT-APPL-SN-414107	c 35	N84-22932 *	US-PATENT-APPL-SN-428890	c 02	N70-41630 *
US-PATENT-APPL-SN-399074	c 33	N88-14271 *	US-PATENT-APPL-SN-414237	c 35	N85-30282 *	US-PATENT-APPL-SN-428992	c 34	N77-18382 *
US-PATENT-APPL-SN-399419	c 21	N71-23289 *	US-PATENT-APPL-SN-41430	c 10	N72-20221 *	US-PATENT-APPL-SN-428993	c 45	N75-27585 *
US-PATENT-APPL-SN-400467	c 33	N75-30431 *	US-PATENT-APPL-SN-41431	c 37	N77-27400 *	US-PATENT-APPL-SN-428994	c 32	N75-21486 *
US-PATENT-APPL-SN-400613	c 15	N71-21528 *	US-PATENT-APPL-SN-414482	c 10	N71-10578 *	US-PATENT-APPL-SN-428994	c 32	N76-16249 *
US-PATENT-APPL-SN-400617	c 31	N71-17629 *	US-PATENT-APPL-SN-41455	c 02	N70-33255 *	US-PATENT-APPL-SN-428995	c 51	N75-25503 *
US-PATENT-APPL-SN-400857	c 31	N79-21225 *	US-PATENT-APPL-SN-414811	c 32	N90-16974 * #	US-PATENT-APPL-SN-429437	c 35	N75-23910 *
US-PATENT-APPL-SN-401224	c 38	N78-17396 *	US-PATENT-APPL-SN-414811	c 32	N92-22033 *	US-PATENT-APPL-SN-429514	c 24	N90-26881 * #
US-PATENT-APPL-SN-401225	c 38	N78-17395 *	US-PATENT-APPL-SN-414812	c 35	N90-17104 * #	US-PATENT-APPL-SN-429515	c 14	N92-15081 *
US-PATENT-APPL-SN-401282	c 18	N85-29991 *	US-PATENT-APPL-SN-414815	c 33	N91-26438 *	US-PATENT-APPL-SN-429516	c 05	N90-15094 * #
US-PATENT-APPL-SN-401288	c 37	N84-28081 *	US-PATENT-APPL-SN-414816	c 37	N91-14617 *	US-PATENT-APPL-SN-429516	c 05	N92-21587 *
US-PATENT-APPL-SN-401466	c 09	N75-24758 *	US-PATENT-APPL-SN-414820	c 33	N90-17010 * #	US-PATENT-APPL-SN-429574	c 27	N91-28425 * #
US-PATENT-APPL-SN-401919	c 24	N76-24363 *	US-PATENT-APPL-SN-415486	c 37	N75-19683 *	US-PATENT-APPL-SN-429734	c 04	N91-14321 *
US-PATENT-APPL-SN-401920	c 37	N75-25185 *	US-PATENT-APPL-SN-415878	c 08	N86-27288 *	US-PATENT-APPL-SN-429737	c 34	N90-27071 * #
US-PATENT-APPL-SN-401921	c 24	N76-14203 *	US-PATENT-APPL-SN-415879	c 37	N85-21652 *	US-PATENT-APPL-SN-429739	c 25	N90-16887 * #
US-PATENT-APPL-SN-402205	c 33	N85-30187 *	US-PATENT-APPL-SN-415880	c 27	N84-27884 *	US-PATENT-APPL-SN-429932	c 05	N71-20268 *
US-PATENT-APPL-SN-402365	c 31	N71-17730 *	US-PATENT-APPL-SN-415960	c 37	N85-20337 *	US-PATENT-APPL-SN-430192	c 18	N71-27170 *
US-PATENT-APPL-SN-402865	c 33	N74-32660 *	US-PATENT-APPL-SN-416135	c 32	N75-15854 *	US-PATENT-APPL-SN-430226	c 18	N71-23658 *
US-PATENT-APPL-SN-402867	c 35	N75-33367 *	US-PATENT-APPL-SN-416938	c 11	N71-10746 *	US-PATENT-APPL-SN-430470	c 27	N90-26955 * #
US-PATENT-APPL-SN-402868	c 35	N75-19612 *	US-PATENT-APPL-SN-416940	c 21	N71-21708 *	US-PATENT-APPL-SN-430496	c 26	N75-29236 *
US-PATENT-APPL-SN-402978	c 10	N71-23084 *	US-PATENT-APPL-SN-416941	c 31	N70-34159 *	US-PATENT-APPL-SN-430748	c 76	N79-21910 *
US-PATENT-APPL-SN-403154	c 37	N77-22480 *	US-PATENT-APPL-SN-416943	c 14	N71-23269 *	US-PATENT-APPL-SN-430776	c 03	N70-41954 *
US-PATENT-APPL-SN-403371	c 27	N82-33523 * #	US-PATENT-APPL-SN-416945	c 10	N71-23543 *	US-PATENT-APPL-SN-430777	c 18	N71-24184 *
US-PATENT-APPL-SN-403378	c 26	N84-33555 *	US-PATENT-APPL-SN-416946	c 28	N71-15563 *	US-PATENT-APPL-SN-430778	c 03	N71-10728 *
US-PATENT-APPL-SN-403694	c 54	N75-12616 *	US-PATENT-APPL-SN-417253	c 11	N71-23042 *	US-PATENT-APPL-SN-430780	c 03	N71-12260 *
US-PATENT-APPL-SN-403695	c 35	N77-20399 *	US-PATENT-APPL-SN-418137	c 16	N84-22601 *	US-PATENT-APPL-SN-431235	c 15	N71-16052 *
US-PATENT-APPL-SN-403847	c 31	N83-35176 *	US-PATENT-APPL-SN-418138	c 16	N84-27784 *	US-PATENT-APPL-SN-431420	c 37	N85-29282 *
US-PATENT-APPL-SN-403848	c 33	N85-21493 *	US-PATENT-APPL-SN-418139	c 24	N84-27829 *	US-PATENT-APPL-SN-431448	c 37	N84-22957 *
US-PATENT-APPL-SN-403849	c 35	N87-21304 *	US-PATENT-APPL-SN-418320	c 03	N91-31113 *	US-PATENT-APPL-SN-431538	c 18	N91-27200 *
US-PATENT-APPL-SN-403959	c 14	N70-41994 *	US-PATENT-APPL-SN-418362	c 14	N71-20741 *	US-PATENT-APPL-SN-431886	c 18	N84-27787 *
US-PATENT-APPL-SN-403960	c 14	N70-41366 *	US-PATENT-APPL-SN-418372	c 27	N91-13562 * #	US-PATENT-APPL-SN-432025	c 15	N71-21531 *
US-PATENT-APPL-SN-404212	c 14	N73-32324 *	US-PATENT-APPL-SN-418373	c 33	N91-27479 *	US-PATENT-APPL-SN-432026	c 07	N71-23405 *
US-PATENT-APPL-SN-404288	c 33	N91-14536 *	US-PATENT-APPL-SN-418374	c 35	N91-14591 *	US-PATENT-APPL-SN-432027	c 21	N70-41930 *
US-PATENT-APPL-SN-404289	c 26	N91-14462 *	US-PATENT-APPL-SN-418611	c 27	N91-27372 *	US-PATENT-APPL-SN-432028	c 15	N71-22723 *
US-PATENT-APPL-SN-404290	c 34	N91-14563 *	US-PATENT-APPL-SN-418612	c 33	N91-14550 *	US-PATENT-APPL-SN-432030	c 12	N71-20896 *
US-PATENT-APPL-SN-404291	c 74	N91-21871 *	US-PATENT-APPL-SN-418931	c 05	N70-42000 *	US-PATENT-APPL-SN-432032	c 15	N69-24322 * #
US-PATENT-APPL-SN-404292	c 37	N91-14609 *	US-PATENT-APPL-SN-418933	c 15	N71-23022 *	US-PATENT-APPL-SN-432057	c 33	N84-14423 *
US-PATENT-APPL-SN-404293	c 32	N90-16104 * #	US-PATENT-APPL-SN-419319	c 34	N76-17317 *	US-PATENT-APPL-SN-432433	c 15	N71-22705 *
US-PATENT-APPL-SN-404809	c 27	N84-27885 *	US-PATENT-APPL-SN-419554	c 23	N91-25185 *	US-PATENT-APPL-SN-433196	c 44	N84-23019 *
US-PATENT-APPL-SN-404809	c 25	N85-28982 *	US-PATENT-APPL-SN-419747	c 17	N76-21250 *	US-PATENT-APPL-SN-43327	c 15	N72-26371 *
US-PATENT-APPL-SN-405154	c 37	N91-21539 *	US-PATENT-APPL-SN-419748	c 27	N76-14264 *	US-PATENT-APPL-SN-433598	c 27	N84-22747 *
US-PATENT-APPL-SN-405168	c 70	N91-21824 *	US-PATENT-APPL-SN-419831	c 35	N75-21582 *	US-PATENT-APPL-SN-433804	c 16	N90-16781 * #
US-PATENT-APPL-SN-405169	c 33	N91-14538 *	US-PATENT-APPL-SN-419831	c 35	N77-17426 *	US-PATENT-APPL-SN-433812	c 27	N90-15260 * #
US-PATENT-APPL-SN-405341	c 37	N76-15460 *	US-PATENT-APPL-SN-42022	c 15	N70-35409 *	US-PATENT-APPL-SN-433821	c 09	N71-16089 *
US-PATENT-APPL-SN-405342	c 35	N75-19615 *	US-PATENT-APPL-SN-420245	c 08	N71-22749 *	US-PATENT-APPL-SN-433863	c 24	N91-17145 *
US-PATENT-APPL-SN-405346	c 37	N75-30562 *	US-PATENT-APPL-SN-420250	c 15	N71-23051 *	US-PATENT-APPL-SN-433881	c 37	N92-10197 *
US-PATENT-APPL-SN-405629	c 09	N71-10677 *	US-PATENT-APPL-SN-420424	c 34	N75-26282 *	US-PATENT-APPL-SN-433968	c 33	N75-25041 *
US-PATENT-APPL-SN-405630	c 14	N71-10616 *	US-PATENT-APPL-SN-420466	c 14	N71-23092 *	US-PATENT-APPL-SN-434084	c 33	N84-27974 *
US-PATENT-APPL-SN-405632	c 21	N71-15582 *	US-PATENT-APPL-SN-420813	c 36	N75-32441 *	US-PATENT-APPL-SN-434085	c 33	N85-29145 *
US-PATENT-APPL-SN-406097	c 14	N71-21088 *	US-PATENT-APPL-SN-42088	c 34	N78-17336 *	US-PATENT-APPL-SN-434087	c 27	N86-19457 *
US-PATENT-APPL-SN-406296	c 25	N79-10163 *	US-PATENT-APPL-SN-421702	c 44	N75-32581 *	US-PATENT-APPL-SN-434143	c 15	N71-15871 *
US-PATENT-APPL-SN-406715	c 35	N75-15014 *	US-PATENT-APPL-SN-421702	c 44	N76-32675 *	US-PATENT-APPL-SN-434148	c 31	N71-24750 *
US-PATENT-APPL-SN-406820	c 74	N86-32266 *	US-PATENT-APPL-SN-422092	c 14	N71-22989 *	US-PATENT-APPL-SN-434195	c 27	N92-22044 *
US-PATENT-APPL-SN-407240	c 27	N83-34041 *	US-PATENT-APPL-SN-422095	c 07	N71-10676 *	US-PATENT-APPL-SN-434672	c 34	N84-14461 *
US-PATENT-APPL-SN-407240	c 27	N85-20124 *	US-PATENT-APPL-SN-422096	c 03	N71-29044 *	US-PATENT-APPL-SN-434674	c 34	N83-35307 *
US-PATENT-APPL-SN-407323	c 32	N75-21485 *	US-PATENT-APPL-SN-422097	c 11	N71-21481 *	US-PATENT-APPL-SN-435387	c 10	N70-42032 *
US-PATENT-APPL-SN-407595	c 28	N70-41992 *	US-PATENT-APPL-SN-422098	c 15	N71-22797 *	US-PATENT-APPL-SN-435433	c 14	N71-30026 *
US-PATENT-APPL-SN-407599	c 14	N71-21091 *	US-PATENT-APPL-SN-422099	c 14	N71-22964 *	US-PATENT-APPL-SN-435511	c 27	N84-27886 *
US-PATENT-APPL-SN-407603	c 05	N71-11199 *	US-PATENT-APPL-SN-422726	c 71	N91-27914 *	US-PATENT-APPL-SN-435756	c 12	N71-16894 *
US-PATENT-APPL-SN-408435	c 15	N71-28937 *	US-PATENT-APPL-SN-422864	c 05	N69-21925 * #	US-PATENT-APPL-SN-436313	c 54	N77-32721 *
US-PATENT-APPL-SN-408438	c 07	N71-22750 *	US-PATENT-APPL-SN-422865	c 31	N70-41631 *	US-PATENT-APPL-SN-436315	c 26	N75-19408 *
US-PATENT-APPL-SN-408442	c 10	N71-23662 *	US-PATENT-APPL-SN-422867	c 15	N70-40062 *	US-PATENT-APPL-SN-436316	c 20	N76-14191 *
US-PATENT-APPL-SN-408575	c 35	N83-32026 *	US-PATENT-APPL					

US-PATENT-APPL-SN-437912

REPORT NUMBER INDEX

US-PATENT-APPL-SN-437912	c 33	N85-29142 *	US-PATENT-APPL-SN-455163	c 32	N75-26195 *	US-PATENT-APPL-SN-47121	c 09	N70-39915 *
US-PATENT-APPL-SN-437917	c 60	N85-33701 *	US-PATENT-APPL-SN-455165	c 36	N75-30524 *	US-PATENT-APPL-SN-47122	c 14	N70-34813 *
US-PATENT-APPL-SN-438135	c 09	N71-23027 *	US-PATENT-APPL-SN-45519	c 14	N72-25410 *	US-PATENT-APPL-SN-47123	c 15	N70-34817 *
US-PATENT-APPL-SN-438147	c 75	N76-14931 *	US-PATENT-APPL-SN-455352	c 33	N71-20834 *	US-PATENT-APPL-SN-472066	c 31	N70-42075 *
US-PATENT-APPL-SN-438446	c 74	N86-20134 *	US-PATENT-APPL-SN-455477	c 08	N71-19687 *	US-PATENT-APPL-SN-472372	c 07	N71-20791 *
US-PATENT-APPL-SN-438797	c 14	N71-10500 *	US-PATENT-APPL-SN-45549	c 2	N76-16228 *	US-PATENT-APPL-SN-472643	c 33	N79-21265 *
US-PATENT-APPL-SN-43883	c 18	N73-30532 *	US-PATENT-APPL-SN-456460	c 26	N84-27855 *	US-PATENT-APPL-SN-472747	c 31	N71-16081 *
US-PATENT-APPL-SN-43884	c 15	N72-25457 *	US-PATENT-APPL-SN-456578	c 07	N70-41678 *	US-PATENT-APPL-SN-472775	c 35	N75-33369 *
US-PATENT-APPL-SN-439317	c 27	N90-26953 *	US-PATENT-APPL-SN-456581	c 09	N71-23021 *	US-PATENT-APPL-SN-472939	c 74	N92-16810 *
US-PATENT-APPL-SN-439489	c 09	N70-41717 *	US-PATENT-APPL-SN-456874	c 06	N71-23499 *	US-PATENT-APPL-SN-473024	c 62	N90-27385 *
US-PATENT-APPL-SN-439490	c 23	N69-24332 *	US-PATENT-APPL-SN-457295	c 20	N75-24837 *	US-PATENT-APPL-SN-473030	c 37	N90-27116 *
US-PATENT-APPL-SN-440033	c 27	N70-41897 *	US-PATENT-APPL-SN-457874	c 09	N71-23545 *	US-PATENT-APPL-SN-473064	c 37	N90-27112 *
US-PATENT-APPL-SN-440036	c 09	N71-23097 *	US-PATENT-APPL-SN-457875	c 31	N70-42015 *	US-PATENT-APPL-SN-473065	c 34	N91-21473 *
US-PATENT-APPL-SN-440039	c 09	N71-22888 *	US-PATENT-APPL-SN-457876	c 02	N71-12243 *	US-PATENT-APPL-SN-473242	c 34	N91-25380 *
US-PATENT-APPL-SN-440656	c 27	N85-21348 *	US-PATENT-APPL-SN-457879	c 15	N71-21078 *	US-PATENT-APPL-SN-473498	c 20	N85-21256 *
US-PATENT-APPL-SN-440916	c 33	N75-27252 *	US-PATENT-APPL-SN-457990	c 85	N85-34722 *	US-PATENT-APPL-SN-473499	c 74	N86-21348 *
US-PATENT-APPL-SN-440917	c 37	N76-18459 *	US-PATENT-APPL-SN-457992	c 35	N85-29212 *	US-PATENT-APPL-SN-473535	c 31	N71-15637 *
US-PATENT-APPL-SN-441279	c 35	N75-29382 *	US-PATENT-APPL-SN-458065	c 37	N91-13731 *	US-PATENT-APPL-SN-473537	c 08	N71-15908 *
US-PATENT-APPL-SN-441672	c 37	N91-27560 *	US-PATENT-APPL-SN-458258	c 35	N91-21493 *	US-PATENT-APPL-SN-473827	c 35	N86-32698 *
US-PATENT-APPL-SN-441673	c 37	N91-21541 *	US-PATENT-APPL-SN-458274	c 37	N91-21540 *	US-PATENT-APPL-SN-473973	c 02	N77-10001 *
US-PATENT-APPL-SN-441896	c 76	N90-20896 *	US-PATENT-APPL-SN-458280	c 60	N90-27268 *	US-PATENT-APPL-SN-47440	c 07	N73-20174 *
US-PATENT-APPL-SN-441897	c 35	N84-33768 *	US-PATENT-APPL-SN-458467	c 76	N90-17454 *	US-PATENT-APPL-SN-47441	c 09	N70-34559 *
US-PATENT-APPL-SN-441899	c 27	N84-14322 *	US-PATENT-APPL-SN-458476	c 18	N91-13483 *	US-PATENT-APPL-SN-47443	c 09	N72-17152 *
US-PATENT-APPL-SN-441936	c 14	N69-39975 *	US-PATENT-APPL-SN-458476	c 18	N92-21999 *	US-PATENT-APPL-SN-474531	c 31	N71-23009 *
US-PATENT-APPL-SN-442558	c 15	N71-10799 *	US-PATENT-APPL-SN-458484	c 44	N76-14595 *	US-PATENT-APPL-SN-474744	c 35	N76-14431 *
US-PATENT-APPL-SN-442815	c 76	N87-23286 *	US-PATENT-APPL-SN-459029	c 37	N91-21544 *	US-PATENT-APPL-SN-474745	c 37	N76-14463 *
US-PATENT-APPL-SN-442835	c 26	N71-29156 *	US-PATENT-APPL-SN-459138	c 14	N71-10773 *	US-PATENT-APPL-SN-474815	c 33	N79-21264 *
US-PATENT-APPL-SN-443289	c 27	N92-10090 *	US-PATENT-APPL-SN-459407	c 14	N73-30391 *	US-PATENT-APPL-SN-475299	c 31	N71-17679 *
US-PATENT-APPL-SN-443297	c 33	N91-14539 *	US-PATENT-APPL-SN-459736	c 33	N75-26245 *	US-PATENT-APPL-SN-475336	c 54	N75-27758 *
US-PATENT-APPL-SN-443406	c 25	N91-21270 *	US-PATENT-APPL-SN-459842	c 35	N85-30281 *	US-PATENT-APPL-SN-475337	c 51	N76-29891 *
US-PATENT-APPL-SN-443414	c 27	N92-10091 *	US-PATENT-APPL-SN-460509	c 37	N84-33807 *	US-PATENT-APPL-SN-475338	c 35	N76-15431 *
US-PATENT-APPL-SN-443522	c 33	N92-22042 *	US-PATENT-APPL-SN-460733	c 37	N83-20154 *	US-PATENT-APPL-SN-476244	c 33	N84-22885 *
US-PATENT-APPL-SN-443523	c 20	N92-10054 *	US-PATENT-APPL-SN-460876	c 09	N69-21470 *	US-PATENT-APPL-SN-476759	c 03	N70-42073 *
US-PATENT-APPL-SN-443539	c 32	N91-25318 *	US-PATENT-APPL-SN-460877	c 33	N71-23085 *	US-PATENT-APPL-SN-476761	c 11	N71-10748 *
US-PATENT-APPL-SN-444087	c 02	N71-11041 *	US-PATENT-APPL-SN-461073	c 33	N75-26246 *	US-PATENT-APPL-SN-476763	c 09	N69-21313 *
US-PATENT-APPL-SN-444124	c 52	N84-23095 *	US-PATENT-APPL-SN-461477	c 37	N75-19686 *	US-PATENT-APPL-SN-477333	c 28	N70-41922 *
US-PATENT-APPL-SN-444125	c 20	N83-17588 *	US-PATENT-APPL-SN-461724	c 31	N85-21404 *	US-PATENT-APPL-SN-478129	c 25	N86-27431 *
US-PATENT-APPL-SN-444149	c 47	N84-28292 *	US-PATENT-APPL-SN-461765	c 17	N71-23046 *	US-PATENT-APPL-SN-478130	c 74	N85-23396 *
US-PATENT-APPL-SN-444150	c 35	N84-22933 *	US-PATENT-APPL-SN-461788	c 27	N85-21349 *	US-PATENT-APPL-SN-478131	c 26	N87-14482 *
US-PATENT-APPL-SN-445178	c 37	N76-15461 *	US-PATENT-APPL-SN-462341	c 44	N76-31666 *	US-PATENT-APPL-SN-478491	c 14	N69-21363 *
US-PATENT-APPL-SN-445292	c 11	N71-23030 *	US-PATENT-APPL-SN-462424	c 24	N77-19171 *	US-PATENT-APPL-SN-478800	c 37	N76-19436 *
US-PATENT-APPL-SN-445398	c 74	N78-15880 *	US-PATENT-APPL-SN-462497	c 25	N85-21279 *	US-PATENT-APPL-SN-478802	c 35	N75-29381 *
US-PATENT-APPL-SN-445807	c 14	N71-22996 *	US-PATENT-APPL-SN-462508	c 35	N86-19580 *	US-PATENT-APPL-SN-478803	c 31	N76-14284 *
US-PATENT-APPL-SN-446071	c 25	N82-29370 *	US-PATENT-APPL-SN-462705	c 37	N75-19684 *	US-PATENT-APPL-SN-479353	c 15	N71-23256 *
US-PATENT-APPL-SN-446131	c 14	N71-22992 *	US-PATENT-APPL-SN-462762	c 12	N69-21466 *	US-PATENT-APPL-SN-479357	c 36	N77-19416 *
US-PATENT-APPL-SN-446560	c 12	N76-15189 *	US-PATENT-APPL-SN-462763	c 14	N71-22991 *	US-PATENT-APPL-SN-479485	c 27	N92-16121 *
US-PATENT-APPL-SN-446562	c 36	N76-14447 *	US-PATENT-APPL-SN-462844	c 33	N75-19520 *	US-PATENT-APPL-SN-480210	c 11	N71-21474 *
US-PATENT-APPL-SN-446564	c 35	N75-26334 *	US-PATENT-APPL-SN-462903	c 37	N76-14461 *	US-PATENT-APPL-SN-480211	c 14	N71-26135 *
US-PATENT-APPL-SN-446567	c 34	N76-27515 *	US-PATENT-APPL-SN-463456	c 37	N85-30333 *	US-PATENT-APPL-SN-480385	c 74	N92-16808 *
US-PATENT-APPL-SN-446568	c 37	N76-23570 *	US-PATENT-APPL-SN-463720	c 62	N91-32852 *	US-PATENT-APPL-SN-480449	c 33	N90-27040 *
US-PATENT-APPL-SN-446569	c 77	N75-20140 *	US-PATENT-APPL-SN-463925	c 74	N76-30053 *	US-PATENT-APPL-SN-480985	c 18	N91-21222 *
US-PATENT-APPL-SN-447124	c 35	N75-30503 *	US-PATENT-APPL-SN-464720	c 32	N76-16249 *	US-PATENT-APPL-SN-481013	c 60	N91-13888 *
US-PATENT-APPL-SN-447371	c 27	N84-22746 *	US-PATENT-APPL-SN-464721	c 35	N75-26372 *	US-PATENT-APPL-SN-481020	c 36	N83-29681 *
US-PATENT-APPL-SN-447927	c 11	N71-10776 *	US-PATENT-APPL-SN-464722	c 35	N76-22509 *	US-PATENT-APPL-SN-481086	c 33	N84-33660 *
US-PATENT-APPL-SN-447928	c 15	N71-10577 *	US-PATENT-APPL-SN-464723	c 33	N75-30429 *	US-PATENT-APPL-SN-481106	c 09	N84-34448 *
US-PATENT-APPL-SN-447930	c 14	N69-39896 *	US-PATENT-APPL-SN-464878	c 10	N71-22986 *	US-PATENT-APPL-SN-481537	c 18	N90-26861 *
US-PATENT-APPL-SN-447933	c 03	N69-21337 *	US-PATENT-APPL-SN-464879	c 14	N71-21072 *	US-PATENT-APPL-SN-482104	c 27	N76-22377 *
US-PATENT-APPL-SN-448320	c 91	N76-30131 *	US-PATENT-APPL-SN-464880	c 33	N71-21586 *	US-PATENT-APPL-SN-482105	c 27	N76-23426 *
US-PATENT-APPL-SN-448321	c 27	N78-32261 *	US-PATENT-APPL-SN-464885	c 15	N71-22997 *	US-PATENT-APPL-SN-482307	c 15	N71-21060 *
US-PATENT-APPL-SN-448323	c 18	N76-17185 *	US-PATENT-APPL-SN-465363	c 52	N84-28389 *	US-PATENT-APPL-SN-482311	c 05	N71-22748 *
US-PATENT-APPL-SN-448325	c 33	N75-26244 *	US-PATENT-APPL-SN-465364	c 44	N85-20530 *	US-PATENT-APPL-SN-482313	c 11	N69-24321 *
US-PATENT-APPL-SN-448365	c 10	N71-26414 *	US-PATENT-APPL-SN-465365	c 43	N86-19711 *	US-PATENT-APPL-SN-482670	c 14	N71-21007 *
US-PATENT-APPL-SN-448881	c 32	N85-29118 *	US-PATENT-APPL-SN-465366	c 27	N85-20126 *	US-PATENT-APPL-SN-482952	c 09	N71-28926 *
US-PATENT-APPL-SN-448898	c 15	N70-41310 *	US-PATENT-APPL-SN-465367	c 27	N84-22748 *	US-PATENT-APPL-SN-482953	c 74	N76-18913 *
US-PATENT-APPL-SN-449118	c 33	N75-19524 *	US-PATENT-APPL-SN-465369	c 76	N86-28760 *	US-PATENT-APPL-SN-482967	c 34	N76-18364 *
US-PATENT-APPL-SN-449153	c 54	N75-27761 *	US-PATENT-APPL-SN-465370	c 52	N83-29991 *	US-PATENT-APPL-SN-483301	c 36	N77-26477 *
US-PATENT-APPL-SN-449210	c 27	N90-26956 *	US-PATENT-APPL-SN-466390	c 28	N71-20330 *	US-PATENT-APPL-SN-483817	c 27	N79-21190 *
US-PATENT-APPL-SN-449901	c 28	N70-41967 *	US-PATENT-APPL-SN-466868	c 22	N71-23599 *	US-PATENT-APPL-SN-483850	c 37	N76-14460 *
US-PATENT-APPL-SN-449902	c 14	N70-41681 *	US-PATENT-APPL-SN-466873	c 17	N71-20743 *	US-PATENT-APPL-SN-483851	c 35	N76-15435 *
US-PATENT-APPL-SN-450166	c 33	N84-27975 *	US-PATENT-APPL-SN-466875	c 08	N71-22707 *	US-PATENT-APPL-SN-483852	c 33	N75-30430 *
US-PATENT-APPL-SN-450319	c 33	N84-33661 *	US-PATENT-APPL-SN-467820	c 28	N71-26779 *	US-PATENT-APPL-SN-483857	c 44	N76-14601 *
US-PATENT-APPL-SN-450500	c 37	N76-18455 *	US-PATENT-APPL-SN-468614	c 60	N77-14751 *	US-PATENT-APPL-SN-483858	c 35	N76-18400 *
US-PATENT-APPL-SN-450502	c 37	N76-18456 *	US-PATENT-APPL-SN-468614	c 60	N77-32731 *	US-PATENT-APPL-SN-483885	c 04	N71-23185 *
US-PATENT-APPL-SN-450504	c 23	N77-17161 *	US-PATENT-APPL-SN-468614	c 60	N78-10709 *	US-PATENT-APPL-SN-483886	c 09	N71-22988 *
US-PATENT-APPL-SN-450505	c 37	N75-31446 *	US-PATENT-APPL-SN-468647	c 21	N71-10771 *	US-PATENT-APPL-SN-483891	c 14	N69-39982 *
US-PATENT-APPL-SN-450503	c 33	N75-31330 *	US-PATENT-APPL-SN-468655	c 15	N69-21471 *	US-PATENT-APPL-SN-484156	c 11	N71-21475 *
US-PATENT-APPL-SN-451596	c 17	N71-29137 *	US-PATENT-APPL-SN-469011	c 11	N69-21540 *	US-PATENT-APPL-SN-484208	c 35	N75-30502 *
US-PATENT-APPL-SN-451896	c 26	N86-32551 *	US-PATENT-APPL-SN-469012	c 25	N71-20747 *	US-PATENT-APPL-SN-484209	c 35	N76-18403 *
US-PATENT-APPL-SN-452464	c 24	N84-11213 *	US-PATENT-APPL-SN-469013	c 14	N69-27423 *	US-PATENT-APPL-SN-484485	c 01	N71-23497 *
US-PATENT-APPL-SN-452465	c 25	N90-11824 *	US-PATENT-APPL-SN-469371	c 05	N86-19310 *	US-PATENT-APPL-SN-484489	c 10	N71-15909 *
US-PATENT-APPL-SN-452466	c 03	N84-33394 *	US-PATENT-APPL-SN-469864	c 37	N86-19805 *	US-PATENT-APPL-SN-484490	c 24	N71-20518 *
US-PATENT-APPL-SN-452761	c 33	N75-19527 *	US-PATENT-APPL-SN-469866	c 27	N84-22749 *	US-PATENT-APPL-SN-484745	c 35	N85-20295 *
US-PATENT-APPL-SN-452767	c 05	N75-25915 *	US-PATENT-APPL-SN-470113	c 17	N87-16863 *	US-PATENT-APPL-SN-484855	c 09	N71-19480 *
US-PATENT-APPL-SN-452768	c 52	N76-30793 *	US-PATENT-APPL-SN-470114	c 25	N83-24572 *	US-PATENT-APPL-SN-485058	c 06	N71-23500 *
US-PATENT-APPL-SN-452769	c 44	N76-16612 *	US-PATENT-APPL-SN-470428	c 33	N76-16332 *	US-PATENT-APPL-SN-485656	c 28	N71-10574 *
US-PATENT-APPL-SN-452770	c 33	N75-31332 *	US-PATENT-APPL-SN-470429	c 33	N75-31329 *	US-PATENT-APPL-SN-485957	c 25	N71-21694 *
US-PATENT-APPL-SN-452944	c 18	N71-24183 *	US-PATENT-APPL-SN-470480	c 20	N92-15122 *	US-PATENT-APPL-SN-485958	c 15	N71-24047 *
US-PATENT-APPL-SN-452945	c 18	N69-39979 *	US-PATENT-APPL-SN-47061	c 26	N72-25680 *	US-PATENT-APPL-SN-485960	c 15	N70-42017 *
US-PATENT-APPL-SN-453115	c 32	N76-14321 *	US-PATENT-APPL-SN-47062	c 15	N72-17451 *	US-PATENT-APPL-SN-48621	c 20	N78-32179 *
US-PATENT-APPL-SN-453225	c 15	N71-24833 *	US-PATENT-APPL-SN-47063	c 33	N72-25911 *	US-PATENT-APPL-SN-486455	c 35	N91-21495 *
US-PATENT-APPL-SN-453227	c 31	N71-10582 *	US-PATENT-APPL-SN-47063	c 33	N73-25952 *	US-PATENT-APPL-SN-486458	c 37	N91-31655 *
US-PATENT-APPL-SN-453229	c 17	N71-23828 *	US-PATENT-APPL-SN-470663	c 37	N91-21543 *	US-PATENT-APPL-SN-486470	c 44	N85-21768 *
US-PATENT-APPL-SN-453231	c 23	N71-15467 *	US-PATENT-APPL-SN-470665	c 43	N91-14642 *	US-PATENT-APPL-SN-486471	c 33	N85-21492 *
US-PATENT-APPL-SN-453								

REPORT NUMBER INDEX

US-PATENT-APPL-SN-529427

US-PATENT-APPL-SN-487156	c 44	N77-10636 *	US-PATENT-APPL-SN-502750	c 09	N71-19466 *	US-PATENT-APPL-SN-516162	c 07	N71-28900 *
US-PATENT-APPL-SN-487341	c 14	N71-19431 *	US-PATENT-APPL-SN-502753	c 07	N69-39978 *	US-PATENT-APPL-SN-516217	c 27	N85-21350 *
US-PATENT-APPL-SN-487342	c 09	N71-21583 *	US-PATENT-APPL-SN-502756	c 03	N71-23336 *	US-PATENT-APPL-SN-516217	c 27	N85-21351 *
US-PATENT-APPL-SN-487343	c 03	N69-39890 *	US-PATENT-APPL-SN-502820	c 23	N85-21347 *	US-PATENT-APPL-SN-516217	c 27	N85-21352 *
US-PATENT-APPL-SN-487344	c 15	N69-21472 *	US-PATENT-APPL-SN-503339	c 04	N72-33072 *	US-PATENT-APPL-SN-516217	c 25	N85-28982 *
US-PATENT-APPL-SN-487352	c 14	N71-18699 *	US-PATENT-APPL-SN-503408	c 74	N91-13999 *	US-PATENT-APPL-SN-516217	c 25	N85-30039 *
US-PATENT-APPL-SN-487852	c 23	N76-15268 *	US-PATENT-APPL-SN-503409	c 33	N91-27478 *	US-PATENT-APPL-SN-516489	c 25	N92-16043 *
US-PATENT-APPL-SN-487929	c 33	N74-20859 *	US-PATENT-APPL-SN-503410	c 37	N91-14610 *	US-PATENT-APPL-SN-516573	c 18	N92-15114 *
US-PATENT-APPL-SN-487934	c 15	N71-21530 *	US-PATENT-APPL-SN-503418	c 37	N91-27561 *	US-PATENT-APPL-SN-516793	c 16	N71-22895 *
US-PATENT-APPL-SN-487939	c 14	N71-23040 *	US-PATENT-APPL-SN-503486	c 44	N91-13802 *	US-PATENT-APPL-SN-516794	c 14	N70-42074 *
US-PATENT-APPL-SN-487940	c 10	N71-26434 *	US-PATENT-APPL-SN-503486	c 44	N92-22037 *	US-PATENT-APPL-SN-516856	c 18	N91-21221 *
US-PATENT-APPL-SN-488381	c 14	N73-32321 *	US-PATENT-APPL-SN-503487	c 24	N90-26880 *	US-PATENT-APPL-SN-517100	c 28	N70-33241 *
US-PATENT-APPL-SN-488578	c 76	N90-27517 *	US-PATENT-APPL-SN-504225	c 35	N76-16392 *	US-PATENT-APPL-SN-517114	c 32	N90-27016 *
US-PATENT-APPL-SN-488578	c 76	N92-22035 *	US-PATENT-APPL-SN-504266	c 31	N91-21064 *	US-PATENT-APPL-SN-517156	c 14	N71-23093 *
US-PATENT-APPL-SN-488616	c 07	N76-18117 *	US-PATENT-APPL-SN-504345	c 33	N85-22877 *	US-PATENT-APPL-SN-517157	c 15	N71-22722 *
US-PATENT-APPL-SN-488745	c 26	N75-27127 *	US-PATENT-APPL-SN-505320	c 16	N71-18614 *	US-PATENT-APPL-SN-517158	c 14	N71-23401 *
US-PATENT-APPL-SN-489008	c 23	N75-30256 *	US-PATENT-APPL-SN-505321	c 10	N71-22962 *	US-PATENT-APPL-SN-517159	c 15	N71-20740 *
US-PATENT-APPL-SN-489009	c 33	N76-19339 *	US-PATENT-APPL-SN-505765	c 15	N71-23816 *	US-PATENT-APPL-SN-517858	c 14	N71-21006 *
US-PATENT-APPL-SN-489442	c 25	N69-39884 *	US-PATENT-APPL-SN-505819	c 33	N76-16331 *	US-PATENT-APPL-SN-517869	c 15	N71-23050 *
US-PATENT-APPL-SN-489675	c 05	N85-29947 *	US-PATENT-APPL-SN-505881	c 09	N76-24280 *	US-PATENT-APPL-SN-517995	c 39	N76-31562 *
US-PATENT-APPL-SN-489997	c 35	N91-13691 *	US-PATENT-APPL-SN-506135	c 06	N71-20905 *	US-PATENT-APPL-SN-518487	c 05	N71-11190 *
US-PATENT-APPL-SN-491054	c 14	N71-23174 *	US-PATENT-APPL-SN-506136	c 60	N91-13890 *	US-PATENT-APPL-SN-518544	c 44	N76-24696 *
US-PATENT-APPL-SN-491058	c 09	N71-23443 *	US-PATENT-APPL-SN-506137	c 15	N71-23049 *	US-PATENT-APPL-SN-518545	c 19	N76-22284 *
US-PATENT-APPL-SN-491059	c 09	N71-23015 *	US-PATENT-APPL-SN-506137	c 76	N90-26685 *	US-PATENT-APPL-SN-518546	c 26	N76-18257 *
US-PATENT-APPL-SN-491113	c 35	N86-19581 *	US-PATENT-APPL-SN-506477	c 33	N85-29146 *	US-PATENT-APPL-SN-518684	c 44	N76-22657 *
US-PATENT-APPL-SN-491125	c 27	N84-22750 *	US-PATENT-APPL-SN-506636	c 74	N91-14001 *	US-PATENT-APPL-SN-518685	c 35	N76-14429 *
US-PATENT-APPL-SN-491416	c 35	N75-33368 *	US-PATENT-APPL-SN-506803	c 24	N79-25143 *	US-PATENT-APPL-SN-519160	c 18	N71-20742 *
US-PATENT-APPL-SN-491417	c 37	N76-19437 *	US-PATENT-APPL-SN-506804	c 35	N76-18402 *	US-PATENT-APPL-SN-519161	c 05	N71-20718 *
US-PATENT-APPL-SN-491418	c 31	N76-31365 *	US-PATENT-APPL-SN-506908	c 09	N71-18843 *	US-PATENT-APPL-SN-519395	c 09	N69-24317 *
US-PATENT-APPL-SN-491419	c 32	N76-15330 *	US-PATENT-APPL-SN-507254	c 14	N71-22990 *	US-PATENT-APPL-SN-520472	c 27	N92-11198 *
US-PATENT-APPL-SN-491845	c 28	N71-15659 *	US-PATENT-APPL-SN-507257	c 09	N71-19449 *	US-PATENT-APPL-SN-520838	c 08	N71-18595 *
US-PATENT-APPL-SN-492282	c 27	N85-20124 *	US-PATENT-APPL-SN-507553	c 34	N91-27504 *	US-PATENT-APPL-SN-520839	c 10	N71-19472 *
US-PATENT-APPL-SN-492344	c 05	N71-22896 *	US-PATENT-APPL-SN-507623	c 31	N85-29083 *	US-PATENT-APPL-SN-521006	c 30	N77-10463 *
US-PATENT-APPL-SN-492964	c 25	N85-21280 *	US-PATENT-APPL-SN-507624	c 76	N85-30922 *	US-PATENT-APPL-SN-521601	c 60	N76-14818 *
US-PATENT-APPL-SN-493179	c 23	N85-35227 *	US-PATENT-APPL-SN-507625	c 76	N86-20150 *	US-PATENT-APPL-SN-521602	c 37	N76-18454 *
US-PATENT-APPL-SN-493190	c 43	N91-21621 *	US-PATENT-APPL-SN-507626	c 34	N85-29179 *	US-PATENT-APPL-SN-521603	c 35	N75-29380 *
US-PATENT-APPL-SN-493359	c 20	N76-21275 *	US-PATENT-APPL-SN-508154	c 54	N91-32795 *	US-PATENT-APPL-SN-521620	c 09	N77-10071 *
US-PATENT-APPL-SN-493363	c 33	N76-21390 *	US-PATENT-APPL-SN-508169	c 18	N71-27397 *	US-PATENT-APPL-SN-521753	c 15	N70-41960 *
US-PATENT-APPL-SN-493529	c 51	N91-31755 *	US-PATENT-APPL-SN-508170	c 08	N71-22710 *	US-PATENT-APPL-SN-521754	c 07	N71-22984 *
US-PATENT-APPL-SN-493864	c 23	N90-20133 *	US-PATENT-APPL-SN-508316	c 27	N90-26954 *	US-PATENT-APPL-SN-521755	c 28	N71-28849 *
US-PATENT-APPL-SN-493864	c 23	N90-23475 *	US-PATENT-APPL-SN-508371	c 05	N85-21147 *	US-PATENT-APPL-SN-521816	c 35	N77-19385 *
US-PATENT-APPL-SN-493865	c 24	N86-19380 *	US-PATENT-APPL-SN-508372	c 43	N83-29783 *	US-PATENT-APPL-SN-521817	c 45	N76-21742 *
US-PATENT-APPL-SN-493866	c 71	N84-28568 *	US-PATENT-APPL-SN-508386	c 25	N92-10073 *	US-PATENT-APPL-SN-521994	c 17	N71-23365 *
US-PATENT-APPL-SN-493942	c 14	N71-17659 *	US-PATENT-APPL-SN-508601	c 15	N71-22878 *	US-PATENT-APPL-SN-521996	c 15	N69-27871 *
US-PATENT-APPL-SN-493943	c 15	N71-21529 *	US-PATENT-APPL-SN-508784	c 76	N76-25049 *	US-PATENT-APPL-SN-521998	c 07	N69-24323 *
US-PATENT-APPL-SN-494280	c 28	N71-23081 *	US-PATENT-APPL-SN-508873	c 14	N71-23240 *	US-PATENT-APPL-SN-521999	c 12	N71-20815 *
US-PATENT-APPL-SN-494282	c 15	N69-39735 *	US-PATENT-APPL-SN-509460	c 01	N71-13411 *	US-PATENT-APPL-SN-522109	c 07	N78-17056 *
US-PATENT-APPL-SN-494283	c 31	N71-24035 *	US-PATENT-APPL-SN-510136	c 18	N84-33450 *	US-PATENT-APPL-SN-522551	c 76	N76-20994 *
US-PATENT-APPL-SN-494287	c 03	N71-22974 *	US-PATENT-APPL-SN-510137	c 37	N85-34401 *	US-PATENT-APPL-SN-522552	c 35	N76-16390 *
US-PATENT-APPL-SN-494739	c 07	N71-26291 *	US-PATENT-APPL-SN-510150	c 10	N71-26103 *	US-PATENT-APPL-SN-522556	c 35	N76-15432 *
US-PATENT-APPL-SN-495021	c 44	N78-13526 *	US-PATENT-APPL-SN-510155	c 06	N71-11235 *	US-PATENT-APPL-SN-522629	c 23	N90-20133 *
US-PATENT-APPL-SN-495022	c 60	N77-12721 *	US-PATENT-APPL-SN-510474	c 15	N71-23810 *	US-PATENT-APPL-SN-522629	c 23	N90-23475 *
US-PATENT-APPL-SN-495380	c 37	N85-29285 *	US-PATENT-APPL-SN-510475	c 14	N71-23087 *	US-PATENT-APPL-SN-5226628	c 08	N85-19985 *
US-PATENT-APPL-SN-495380	c 37	N87-22976 *	US-PATENT-APPL-SN-510677	c 44	N77-19571 *	US-PATENT-APPL-SN-522794	c 09	N71-23190 *
US-PATENT-APPL-SN-495381	c 24	N84-22695 *	US-PATENT-APPL-SN-511299	c 15	N71-22798 *	US-PATENT-APPL-SN-522795	c 20	N71-16281 *
US-PATENT-APPL-SN-495381	c 24	N85-21267 *	US-PATENT-APPL-SN-511334	c 36	N77-32478 *	US-PATENT-APPL-SN-522949	c 37	N91-13724 *
US-PATENT-APPL-SN-495969	c 44	N91-27614 *	US-PATENT-APPL-SN-511346	c 15	N77-10113 *	US-PATENT-APPL-SN-522949	c 37	N92-22036 *
US-PATENT-APPL-SN-496205	c 14	N71-22965 *	US-PATENT-APPL-SN-511362	c 33	N85-29147 *	US-PATENT-APPL-SN-522971	c 54	N76-24900 *
US-PATENT-APPL-SN-496779	c 05	N76-29217 *	US-PATENT-APPL-SN-511363	c 25	N88-23846 *	US-PATENT-APPL-SN-523297	c 24	N85-21266 *
US-PATENT-APPL-SN-498167	c 03	N71-10608 *	US-PATENT-APPL-SN-5114	c 06	N72-25150 *	US-PATENT-APPL-SN-523297	c 24	N85-35233 *
US-PATENT-APPL-SN-498168	c 28	N71-21822 *	US-PATENT-APPL-SN-511564	c 09	N69-39885 *	US-PATENT-APPL-SN-523511	c 28	N71-20942 *
US-PATENT-APPL-SN-499122	c 15	N71-24164 *	US-PATENT-APPL-SN-511567	c 05	N71-12336 *	US-PATENT-APPL-SN-523559	c 74	N85-29750 *
US-PATENT-APPL-SN-499126	c 23	N86-19376 *	US-PATENT-APPL-SN-511887	c 35	N76-15436 *	US-PATENT-APPL-SN-523560	c 60	N86-21154 *
US-PATENT-APPL-SN-500044	c 35	N85-21597 *	US-PATENT-APPL-SN-511894	c 03	N76-32140 *	US-PATENT-APPL-SN-523632	c 33	N78-17293 *
US-PATENT-APPL-SN-500046	c 31	N87-16918 *	US-PATENT-APPL-SN-512352	c 15	N70-33330 *	US-PATENT-APPL-SN-523675	c 37	N91-21545 *
US-PATENT-APPL-SN-500435	c 14	N71-21082 *	US-PATENT-APPL-SN-512509	c 26	N75-27125 *	US-PATENT-APPL-SN-523692	c 61	N90-27341 *
US-PATENT-APPL-SN-500446	c 10	N71-23029 *	US-PATENT-APPL-SN-512559	c 23	N71-22881 *	US-PATENT-APPL-SN-523991	c 35	N86-20751 *
US-PATENT-APPL-SN-500651	c 07	N85-35195 *	US-PATENT-APPL-SN-512561	c 16	N71-25914 *	US-PATENT-APPL-SN-524109	c 24	N92-10070 *
US-PATENT-APPL-SN-500979	c 32	N76-18295 *	US-PATENT-APPL-SN-512562	c 16	N71-24074 *	US-PATENT-APPL-SN-524110	c 37	N91-13729 *
US-PATENT-APPL-SN-500980	c 72	N76-15860 *	US-PATENT-APPL-SN-512795	c 27	N84-22745 *	US-PATENT-APPL-SN-524746	c 14	N73-28491 *
US-PATENT-APPL-SN-500981	c 35	N77-10492 *	US-PATENT-APPL-SN-512825	c 32	N76-15329 *	US-PATENT-APPL-SN-524959	c 76	N90-27518 *
US-PATENT-APPL-SN-500982	c 75	N76-17951 *	US-PATENT-APPL-SN-51317	c 14	N73-30389 *	US-PATENT-APPL-SN-526438	c 25	N70-22323 *
US-PATENT-APPL-SN-501011	c 33	N76-18345 *	US-PATENT-APPL-SN-513346	c 07	N79-14095 *	US-PATENT-APPL-SN-526448	c 44	N76-14602 *
US-PATENT-APPL-SN-501012	c 33	N76-14373 *	US-PATENT-APPL-SN-513389	c 25	N75-12087 *	US-PATENT-APPL-SN-526449	c 54	N76-14804 *
US-PATENT-APPL-SN-501060	c 60	N84-28491 *	US-PATENT-APPL-SN-513576	c 35	N76-29552 *	US-PATENT-APPL-SN-526450	c 35	N77-14409 *
US-PATENT-APPL-SN-501893	c 34	N91-13668 *	US-PATENT-APPL-SN-513611	c 24	N76-22309 *	US-PATENT-APPL-SN-526631	c 10	N71-19471 *
US-PATENT-APPL-SN-501908	c 51	N90-27239 *	US-PATENT-APPL-SN-513611	c 24	N80-33482 *	US-PATENT-APPL-SN-526664	c 07	N69-24334 *
US-PATENT-APPL-SN-501909	c 34	N90-27072 *	US-PATENT-APPL-SN-513612	c 05	N77-17029 *	US-PATENT-APPL-SN-526665	c 14	N69-24331 *
US-PATENT-APPL-SN-501910	c 37	N91-14614 *	US-PATENT-APPL-SN-513613	c 27	N78-15276 *	US-PATENT-APPL-SN-526739	c 37	N87-23970 *
US-PATENT-APPL-SN-50206	c 07	N72-17109 *	US-PATENT-APPL-SN-513690	c 37	N76-20480 *	US-PATENT-APPL-SN-526741	c 09	N84-12193 *
US-PATENT-APPL-SN-50207	c 07	N72-20141 *	US-PATENT-APPL-SN-514117	c 27	N86-19455 *	US-PATENT-APPL-SN-526750	c 71	N85-22105 *
US-PATENT-APPL-SN-50208	c 14	N73-13418 *	US-PATENT-APPL-SN-514407	c 18	N71-22894 *	US-PATENT-APPL-SN-526768	c 25	N85-35253 *
US-PATENT-APPL-SN-502124	c 35	N76-16393 *	US-PATENT-APPL-SN-514546	c 74	N76-20958 *	US-PATENT-APPL-SN-526770	c 35	N85-21598 *
US-PATENT-APPL-SN-502135	c 35	N76-15433 *	US-PATENT-APPL-SN-51473	c 02	N70-33266 *	US-PATENT-APPL-SN-527331	c 17	N73-28573 *
US-PATENT-APPL-SN-502136	c 35	N75-27331 *	US-PATENT-APPL-SN-51477	c 14	N72-25412 *	US-PATENT-APPL-SN-527462	c 35	N90-26304 *
US-PATENT-APPL-SN-502137	c 37	N76-21554 *	US-PATENT-APPL-SN-515484	c 14	N71-22993 *	US-PATENT-APPL-SN-527508	c 37	N91-32514 *
US-PATENT-APPL-SN-502138	c 43	N77-10584 *	US-PATENT-APPL-SN-516087	c 27	N85-20125 *	US-PATENT-APPL-SN-527509	c 74	N90-27488 *
US-PATENT-APPL-SN-502693	c 15	N71-20739 *	US-PATENT-APPL-SN-516150	c 05	N71-19440 *	US-PATENT-APPL-SN-527509	c 74	N92-22034 *
US-PATENT-APPL-SN-502701	c 08	N71-23295 *	US-PATENT-APPL-SN-516151	c 15	N70-41679 *	US-PATENT-APPL-SN-527613	c 37	N86-19604 *
US-PATENT-APPL-SN-502709	c 31	N71-21881 *	US-PATENT-APPL-SN-516152	c 14	N71-23225 *	US-PATENT-APPL-SN-527727	c 02	N76-16014 *
US-PATENT-APPL-SN-502710	c 15	N71-23048 *	US-PATENT-APPL-SN-516153	c 10	N71-28783 *	US-PATENT-APPL-SN-527728	c 37	N76-18458 *
US-PATENT-APPL-SN-502729	c 31	N70-41871 *	US-PATENT-APPL-SN-516154	c 09	N69-24330 *	US-PATENT-APPL-SN-527790	c 33	N76-14372 *
US-PATENT-APPL-SN-502739	c 09	N71-23311 *	US-PATENT-APPL-SN-516155	c 09	N71-23270 *	US-PATENT-APPL-SN-527914	c 27	N86-21675 *
US-PATENT								

US-PATENT-APPL-SN-529593

REPORT NUMBER INDEX

US-PATENT-APPL-SN-529593	c 27	N71-21819 *	US-PATENT-APPL-SN-544293	c 32	N91-13594 *	US-PATENT-APPL-SN-55806	c 06	N72-31140 *
US-PATENT-APPL-SN-529594	c 15	N69-27483 *	US-PATENT-APPL-SN-544611	c 33	N76-15373 *	US-PATENT-APPL-SN-558600	c 74	N77-10899 *
US-PATENT-APPL-SN-529594	c 33	N71-29152 *	US-PATENT-APPL-SN-544895	c 07	N71-28809 *	US-PATENT-APPL-SN-559055	c 33	N71-29046 *
US-PATENT-APPL-SN-529609	c 09	N69-39986 *	US-PATENT-APPL-SN-544899	c 09	N71-20569 *	US-PATENT-APPL-SN-559349	c 33	N71-24145 *
US-PATENT-APPL-SN-529803	c 33	N86-20668 *	US-PATENT-APPL-SN-545008	c 89	N90-27595 *	US-PATENT-APPL-SN-559350	c 33	N71-28892 *
US-PATENT-APPL-SN-529884	c 54	N76-18761 *	US-PATENT-APPL-SN-545014	c 43	N90-26384 *	US-PATENT-APPL-SN-559351	c 14	N69-39785 *
US-PATENT-APPL-SN-530185	c 32	N86-20647 *	US-PATENT-APPL-SN-545016	c 76	N92-10681 *	US-PATENT-APPL-SN-559845	c 35	N76-29551 *
US-PATENT-APPL-SN-530339	c 31	N86-19479 *	US-PATENT-APPL-SN-545019	c 60	N90-26519 *	US-PATENT-APPL-SN-559846	c 34	N79-13289 *
US-PATENT-APPL-SN-530958	c 09	N71-22985 *	US-PATENT-APPL-SN-545089	c 89	N90-27594 *	US-PATENT-APPL-SN-559846	c 34	N80-24573 *
US-PATENT-APPL-SN-530958	c 72	N91-27936 *	US-PATENT-APPL-SN-545170	c 61	N90-27340 *	US-PATENT-APPL-SN-559847	c 34	N79-13288 *
US-PATENT-APPL-SN-531373	c 74	N92-16811 *	US-PATENT-APPL-SN-545177	c 74	N91-32922 *	US-PATENT-APPL-SN-559988	c 71	N85-29693 *
US-PATENT-APPL-SN-531374	c 37	N91-13734 *	US-PATENT-APPL-SN-545178	c 37	N91-13733 *	US-PATENT-APPL-SN-560035	c 24	N85-30027 *
US-PATENT-APPL-SN-531375	c 26	N90-26940 *	US-PATENT-APPL-SN-545220	c 89	N91-14096 *	US-PATENT-APPL-SN-560691	c 32	N91-27439 *
US-PATENT-APPL-SN-531433	c 35	N91-31608 *	US-PATENT-APPL-SN-545223	c 03	N71-11056 *	US-PATENT-APPL-SN-560717	c 27	N91-13559 *
US-PATENT-APPL-SN-531433	c 35	N92-22038 *	US-PATENT-APPL-SN-545224	c 15	N69-21362 *	US-PATENT-APPL-SN-560891	c 73	N78-19920 *
US-PATENT-APPL-SN-531434	c 34	N90-27070 *	US-PATENT-APPL-SN-545228	c 07	N69-39736 *	US-PATENT-APPL-SN-560908	c 31	N91-27385 *
US-PATENT-APPL-SN-531434	c 34	N92-21724 *	US-PATENT-APPL-SN-545229	c 03	N69-21469 *	US-PATENT-APPL-SN-560924	c 74	N91-25840 *
US-PATENT-APPL-SN-531565	c 36	N76-24553 *	US-PATENT-APPL-SN-545235	c 63	N91-13944 *	US-PATENT-APPL-SN-560926	c 24	N91-13500 *
US-PATENT-APPL-SN-53156	c 10	N71-28860 *	US-PATENT-APPL-SN-545236	c 31	N92-15203 *	US-PATENT-APPL-SN-560926	c 24	N92-21725 *
US-PATENT-APPL-SN-531572	c 66	N76-19888 *	US-PATENT-APPL-SN-545282	c 35	N76-24524 *	US-PATENT-APPL-SN-560967	c 15	N69-21922 *
US-PATENT-APPL-SN-531575	c 32	N76-31372 *	US-PATENT-APPL-SN-545283	c 32	N77-12239 *	US-PATENT-APPL-SN-560968	c 10	N71-24863 *
US-PATENT-APPL-SN-531642	c 25	N71-21693 *	US-PATENT-APPL-SN-545284	c 34	N77-27517 *	US-PATENT-APPL-SN-560969	c 14	N71-15622 *
US-PATENT-APPL-SN-531647	c 04	N76-20114 *	US-PATENT-APPL-SN-545400	c 15	N72-29488 *	US-PATENT-APPL-SN-561020	c 44	N76-23675 *
US-PATENT-APPL-SN-531647	c 04	N71-19056 *	US-PATENT-APPL-SN-545400	c 37	N74-15125 *	US-PATENT-APPL-SN-561223	c 14	N71-20427 *
US-PATENT-APPL-SN-532006	c 23	N71-24857 *	US-PATENT-APPL-SN-545552	c 27	N70-34783 *	US-PATENT-APPL-SN-561369	c 35	N84-33766 *
US-PATENT-APPL-SN-532342	c 08	N85-35200 *	US-PATENT-APPL-SN-545552	c 20	N77-17143 *	US-PATENT-APPL-SN-561429	c 27	N85-21351 *
US-PATENT-APPL-SN-532784	c 27	N75-29263 *	US-PATENT-APPL-SN-545535	c 03	N69-21539 *	US-PATENT-APPL-SN-561431	c 27	N85-21350 *
US-PATENT-APPL-SN-532784	c 27	N78-17205 *	US-PATENT-APPL-SN-545793	c 20	N80-14188 *	US-PATENT-APPL-SN-561432	c 20	N86-26368 *
US-PATENT-APPL-SN-533555	c 36	N76-18428 *	US-PATENT-APPL-SN-545805	c 15	N71-21744 *	US-PATENT-APPL-SN-561433	c 35	N86-20752 *
US-PATENT-APPL-SN-533556	c 36	N76-29575 *	US-PATENT-APPL-SN-546142	c 09	N69-24329 *	US-PATENT-APPL-SN-561434	c 25	N85-30039 *
US-PATENT-APPL-SN-533608	c 32	N76-21366 *	US-PATENT-APPL-SN-546148	c 11	N71-22875 *	US-PATENT-APPL-SN-561435	c 27	N85-21352 *
US-PATENT-APPL-SN-533650	c 35	N75-27329 *	US-PATENT-APPL-SN-546149	c 16	N71-24170 *	US-PATENT-APPL-SN-561764	c 32	N77-10392 *
US-PATENT-APPL-SN-533659	c 14	N73-30390 *	US-PATENT-APPL-SN-547072	c 15	N71-24043 *	US-PATENT-APPL-SN-561956	c 35	N77-17426 *
US-PATENT-APPL-SN-533734	c 33	N77-10428 *	US-PATENT-APPL-SN-547072	c 35	N78-32397 *	US-PATENT-APPL-SN-562095	c 52	N91-13865 *
US-PATENT-APPL-SN-534265	c 32	N76-21365 *	US-PATENT-APPL-SN-547175	c 76	N84-12968 *	US-PATENT-APPL-SN-562443	c 09	N69-39734 *
US-PATENT-APPL-SN-534266	c 35	N76-24523 *	US-PATENT-APPL-SN-547176	c 37	N85-29286 *	US-PATENT-APPL-SN-562444	c 14	N71-22995 *
US-PATENT-APPL-SN-534295	c 15	N71-21076 *	US-PATENT-APPL-SN-547643	c 33	N79-33392 *	US-PATENT-APPL-SN-562445	c 14	N71-23797 *
US-PATENT-APPL-SN-534564	c 10	N71-22961 *	US-PATENT-APPL-SN-547677	c 10	N71-20448 *	US-PATENT-APPL-SN-562499	c 32	N77-31350 *
US-PATENT-APPL-SN-534901	c 14	N70-36807 *	US-PATENT-APPL-SN-548468	c 37	N76-27567 *	US-PATENT-APPL-SN-562558	c 31	N79-21227 *
US-PATENT-APPL-SN-534931	c 37	N80-14395 *	US-PATENT-APPL-SN-548559	c 44	N76-29700 *	US-PATENT-APPL-SN-562933	c 10	N71-24799 *
US-PATENT-APPL-SN-534966	c 15	N71-24042 *	US-PATENT-APPL-SN-548582	c 39	N86-20841 *	US-PATENT-APPL-SN-562934	c 09	N69-21468 *
US-PATENT-APPL-SN-534975	c 14	N71-24232 *	US-PATENT-APPL-SN-548583	c 27	N85-34282 *	US-PATENT-APPL-SN-562992	c 27	N78-32261 *
US-PATENT-APPL-SN-535169	c 54	N78-17678 *	US-PATENT-APPL-SN-548584	c 24	N84-34571 *	US-PATENT-APPL-SN-563049	c 17	N76-29347 *
US-PATENT-APPL-SN-535304	c 09	N71-28810 *	US-PATENT-APPL-SN-548808	c 14	N71-23227 *	US-PATENT-APPL-SN-563050	c 37	N76-31524 *
US-PATENT-APPL-SN-535410	c 37	N76-15457 *	US-PATENT-APPL-SN-549418	c 36	N76-31512 *	US-PATENT-APPL-SN-563283	c 35	N76-18401 *
US-PATENT-APPL-SN-536210	c 17	N71-24830 *	US-PATENT-APPL-SN-549860	c 03	N71-19438 *	US-PATENT-APPL-SN-563644	c 15	N71-18613 *
US-PATENT-APPL-SN-536216	c 10	N71-23315 *	US-PATENT-APPL-SN-550088	c 07	N71-24612 *	US-PATENT-APPL-SN-563646	c 05	N71-23096 *
US-PATENT-APPL-SN-536217	c 10	N71-23544 *	US-PATENT-APPL-SN-550681	c 02	N87-16793 *	US-PATENT-APPL-SN-563648	c 15	N71-17803 *
US-PATENT-APPL-SN-536535	c 33	N76-14371 *	US-PATENT-APPL-SN-550775	c 32	N91-13595 *	US-PATENT-APPL-SN-563650	c 25	N69-21929 *
US-PATENT-APPL-SN-536761	c 33	N76-19338 *	US-PATENT-APPL-SN-551182	c 03	N71-23187 *	US-PATENT-APPL-SN-563651	c 28	N71-23293 *
US-PATENT-APPL-SN-536762	c 37	N76-22540 *	US-PATENT-APPL-SN-551184	c 37	N76-22541 *	US-PATENT-APPL-SN-563890	c 35	N85-34373 *
US-PATENT-APPL-SN-536785	c 33	N76-31409 *	US-PATENT-APPL-SN-551536	c 04	N86-27270 *	US-PATENT-APPL-SN-564622	c 37	N77-31497 *
US-PATENT-APPL-SN-536786	c 44	N77-32581 *	US-PATENT-APPL-SN-551694	c 31	N71-18611 *	US-PATENT-APPL-SN-564919	c 09	N71-23316 *
US-PATENT-APPL-SN-537024	c 44	N76-27664 *	US-PATENT-APPL-SN-551815	c 02	N71-11038 *	US-PATENT-APPL-SN-565090	c 05	N91-31140 *
US-PATENT-APPL-SN-537480	c 45	N76-31714 *	US-PATENT-APPL-SN-551846	c 03	N71-20492 *	US-PATENT-APPL-SN-565162	c 35	N79-14348 *
US-PATENT-APPL-SN-537614	c 33	N86-20672 *	US-PATENT-APPL-SN-551933	c 33	N71-14032 *	US-PATENT-APPL-SN-565289	c 38	N77-17495 *
US-PATENT-APPL-SN-537615	c 28	N71-22983 *	US-PATENT-APPL-SN-551961	c 15	N70-33376 *	US-PATENT-APPL-SN-565290	c 17	N76-22245 *
US-PATENT-APPL-SN-537615	c 37	N85-33489 *	US-PATENT-APPL-SN-552108	c 07	N79-14096 *	US-PATENT-APPL-SN-565481	c 09	N86-32447 *
US-PATENT-APPL-SN-537616	c 26	N85-29005 *	US-PATENT-APPL-SN-552344	c 09	N69-27463 *	US-PATENT-APPL-SN-566392	c 14	N71-23175 *
US-PATENT-APPL-SN-537617	c 09	N71-22987 *	US-PATENT-APPL-SN-552454	c 35	N76-24525 *	US-PATENT-APPL-SN-566397	c 05	N71-23161 *
US-PATENT-APPL-SN-537757	c 37	N86-20789 *	US-PATENT-APPL-SN-552670	c 35	N91-13686 *	US-PATENT-APPL-SN-566493	c 44	N76-29701 *
US-PATENT-APPL-SN-537979	c 37	N77-11397 *	US-PATENT-APPL-SN-553339	c 27	N86-20560 *	US-PATENT-APPL-SN-566494	c 32	N77-30309 *
US-PATENT-APPL-SN-538047	c 37	N76-27568 *	US-PATENT-APPL-SN-553339	c 27	N87-22845 *	US-PATENT-APPL-SN-566495	c 33	N77-17351 *
US-PATENT-APPL-SN-538063	c 37	N86-19603 *	US-PATENT-APPL-SN-553333	c 10	N73-16206 *	US-PATENT-APPL-SN-566717	c 14	N71-24233 *
US-PATENT-APPL-SN-538166	c 15	N71-21177 *	US-PATENT-APPL-SN-553687	c 44	N76-29704 *	US-PATENT-APPL-SN-567025	c 27	N91-13558 *
US-PATENT-APPL-SN-538168	c 23	N71-16098 *	US-PATENT-APPL-SN-553891	c 23	N71-16341 *	US-PATENT-APPL-SN-567686	c 15	N71-22994 *
US-PATENT-APPL-SN-538863	c 54	N78-17680 *	US-PATENT-APPL-SN-554277	c 07	N71-26579 *	US-PATENT-APPL-SN-567806	c 06	N71-22975 *
US-PATENT-APPL-SN-538905	c 08	N71-18594 *	US-PATENT-APPL-SN-554897	c 15	N71-22982 *	US-PATENT-APPL-SN-56791	c 10	N72-16172 *
US-PATENT-APPL-SN-538907	c 33	N71-28903 *	US-PATENT-APPL-SN-554899	c 15	N70-33382 *	US-PATENT-APPL-SN-568067	c 31	N71-22968 *
US-PATENT-APPL-SN-538908	c 33	N71-22890 *	US-PATENT-APPL-SN-554949	c 06	N71-20717 *	US-PATENT-APPL-SN-568071	c 14	N69-27461 *
US-PATENT-APPL-SN-538911	c 33	N71-22792 *	US-PATENT-APPL-SN-554950	c 17	N71-23248 *	US-PATENT-APPL-SN-568127	c 34	N91-13658 *
US-PATENT-APPL-SN-538913	c 14	N71-17627 *	US-PATENT-APPL-SN-554959	c 27	N79-21191 *	US-PATENT-APPL-SN-568128	c 27	N91-13560 *
US-PATENT-APPL-SN-538982	c 33	N77-14333 *	US-PATENT-APPL-SN-555189	c 08	N71-27255 *	US-PATENT-APPL-SN-568129	c 74	N91-13998 *
US-PATENT-APPL-SN-538983	c 33	N76-18353 *	US-PATENT-APPL-SN-555336	c 33	N76-27473 *	US-PATENT-APPL-SN-568130	c 44	N92-16457 *
US-PATENT-APPL-SN-539230	c 37	N85-30335 *	US-PATENT-APPL-SN-555334	c 11	N72-25288 *	US-PATENT-APPL-SN-568160	c 10	N71-18724 *
US-PATENT-APPL-SN-539237	c 33	N71-16278 *	US-PATENT-APPL-SN-555335	c 14	N73-20474 *	US-PATENT-APPL-SN-568346	c 04	N69-27487 *
US-PATENT-APPL-SN-539255	c 18	N71-26153 *	US-PATENT-APPL-SN-555336	c 14	N72-29464 *	US-PATENT-APPL-SN-568352	c 09	N71-20842 *
US-PATENT-APPL-SN-539255	c 17	N72-28536 *	US-PATENT-APPL-SN-555337	c 18	N72-25540 *	US-PATENT-APPL-SN-568354	c 14	N71-22752 *
US-PATENT-APPL-SN-540414	c 15	N71-22799 *	US-PATENT-APPL-SN-555641	c 51	N76-29891 *	US-PATENT-APPL-SN-568355	c 32	N71-23971 *
US-PATENT-APPL-SN-540779	c 33	N79-12331 *	US-PATENT-APPL-SN-555750	c 27	N79-12221 *	US-PATENT-APPL-SN-568356	c 14	N71-15599 *
US-PATENT-APPL-SN-540976	c 32	N91-13598 *	US-PATENT-APPL-SN-555864	c 26	N91-13527 *	US-PATENT-APPL-SN-568362	c 03	N69-39983 *
US-PATENT-APPL-SN-540976	c 32	N92-10128 *	US-PATENT-APPL-SN-555865	c 33	N91-13622 *	US-PATENT-APPL-SN-568364	c 10	N71-26418 *
US-PATENT-APPL-SN-541399	c 14	N71-20428 *	US-PATENT-APPL-SN-556481	c 74	N86-26190 *	US-PATENT-APPL-SN-568541	c 24	N77-28225 *
US-PATENT-APPL-SN-541526	c 33	N87-14594 *	US-PATENT-APPL-SN-556512	c 37	N86-25789 *	US-PATENT-APPL-SN-568541	c 27	N81-14077 *
US-PATENT-APPL-SN-542157	c 20	N76-21276 *	US-PATENT-APPL-SN-556513	c 33	N85-29143 *	US-PATENT-APPL-SN-568620	c 10	N71-26626 *
US-PATENT-APPL-SN-542192	c 26	N75-21266 *	US-PATENT-APPL-SN-556514	c 35	N86-25753 *	US-PATENT-APPL-SN-568987	c 10	N71-19547 *
US-PATENT-APPL-SN-542232	c 33	N86-19516 *	US-PATENT-APPL-SN-556784	c 09	N71-20447 *	US-PATENT-APPL-SN-569370	c 43	N84-23012 *
US-PATENT-APPL-SN-542557	c 44	N85-30474 *	US-PATENT-APPL-SN-556830	c 15	N71-26294 *	US-PATENT-APPL-SN-569372	c 76	N85-33826 *
US-PATENT-APPL-SN-54270	c 07	N72-25173 *	US-PATENT-APPL-SN-557016	c 15	N71-23086 *	US-PATENT-APPL-SN-569925	c 07	N77-17059 *
US-PATENT-APPL-SN-542713	c 23	N71-23976 *	US-PATENT-APPL-SN-557430	c 52	N77-14737 *	US-PATENT-APPL-SN-570093	c 06	N71-17705 *
US-PATENT-APPL-SN-54271	c 02	N73-19004 *	US-PATENT-APPL-SN-557448	c 45	N76-17656 *	US-PATENT-APPL-SN-570095	c 14	N71-23226 *
US-PATENT-APPL-SN-542754	c 34	N76-18374 *	US-PATENT-APPL-SN-557565	c 24	N77-27187 *	US-PATENT-APPL-SN-570097	c 15	N69-23185 *
US-PATENT-APPL-SN-543206	c 05	N71-23159 *	US-PATENT-APPL-SN-557584	c 09	N71-20851 *	US-PATENT-APPL-SN-570678	c 17	N71-25903 *
US-P								

REPORT NUMBER INDEX

US-PATENT-APPL-SN-610802

US-PATENT-APPL-SN-571344	c 35	N92-10186 *	US-PATENT-APPL-SN-583486	c 33	N77-26386 *	US-PATENT-APPL-SN-596959	c 18	N86-20469 *
US-PATENT-APPL-SN-571458	c 44	N77-10635 *	US-PATENT-APPL-SN-583487	c 52	N76-19785 *	US-PATENT-APPL-SN-596960	c 37	N85-33490 *
US-PATENT-APPL-SN-571459	c 54	N78-14784 *	US-PATENT-APPL-SN-584015	c 14	N71-26475 *	US-PATENT-APPL-SN-597430	c 44	N81-29525 *
US-PATENT-APPL-SN-571613	c 74	N86-20124 *	US-PATENT-APPL-SN-584018	c 35	N92-10185 *	US-PATENT-APPL-SN-597430	c 44	N82-28780 *
US-PATENT-APPL-SN-571614	c 35	N86-20750 *	US-PATENT-APPL-SN-584066	c 10	N71-20852 *	US-PATENT-APPL-SN-598118	c 15	N69-27490 * #
US-PATENT-APPL-SN-571615	c 74	N87-14971 *	US-PATENT-APPL-SN-584067	c 07	N71-12392 *	US-PATENT-APPL-SN-598119	c 08	N71-19437 *
US-PATENT-APPL-SN-571616	c 25	N86-19413 *	US-PATENT-APPL-SN-584070	c 09	N69-27500 * #	US-PATENT-APPL-SN-598120	c 08	N71-18602 *
US-PATENT-APPL-SN-571617	c 26	N85-35267 *	US-PATENT-APPL-SN-584071	c 26	N71-16037 *	US-PATENT-APPL-SN-598504	c 37	N77-14477 *
US-PATENT-APPL-SN-571687	c 47	N91-15661 * #	US-PATENT-APPL-SN-584072	c 15	N69-39786 * #	US-PATENT-APPL-SN-598777	c 27	N85-34281 *
US-PATENT-APPL-SN-571821	c 20	N76-22296 *	US-PATENT-APPL-SN-584094	c 26	N77-20201 *	US-PATENT-APPL-SN-598892	c 06	N73-30097 *
US-PATENT-APPL-SN-57252	c 14	N72-25414 *	US-PATENT-APPL-SN-584914	c 54	N78-17679 *	US-PATENT-APPL-SN-59892	c 15	N74-27360 *
US-PATENT-APPL-SN-57253	c 18	N72-25541 *	US-PATENT-APPL-SN-585217	c 54	N78-17677 *	US-PATENT-APPL-SN-59893	c 15	N72-25456 *
US-PATENT-APPL-SN-572990	c 37	N78-16369 *	US-PATENT-APPL-SN-585420	c 35	N76-31489 *	US-PATENT-APPL-SN-59894	c 23	N73-13662 *
US-PATENT-APPL-SN-572991	c 51	N77-22794 *	US-PATENT-APPL-SN-585627	c 52	N91-14709 *	US-PATENT-APPL-SN-59895	c 15	N72-20445 *
US-PATENT-APPL-SN-573029	c 07	N79-14097 *	US-PATENT-APPL-SN-585988	c 33	N75-29318 *	US-PATENT-APPL-SN-598967	c 31	N77-10229 *
US-PATENT-APPL-SN-573162	c 37	N86-27630 *	US-PATENT-APPL-SN-586324	c 05	N71-26293 *	US-PATENT-APPL-SN-598968	c 33	N77-17354 *
US-PATENT-APPL-SN-573432	c 14	N71-23790 *	US-PATENT-APPL-SN-586325	c 31	N71-24315 *	US-PATENT-APPL-SN-598969	c 44	N78-17460 *
US-PATENT-APPL-SN-57399	c 03	N72-20034 *	US-PATENT-APPL-SN-586329	c 05	N71-24623 *	US-PATENT-APPL-SN-599126	c 23	N88-24692 *
US-PATENT-APPL-SN-574208	c 37	N76-29590 *	US-PATENT-APPL-SN-586330	c 05	N71-12344 *	US-PATENT-APPL-SN-599284	c 35	N77-14411 *
US-PATENT-APPL-SN-574218	c 52	N76-29895 *	US-PATENT-APPL-SN-586369	c 74	N91-15874 * #	US-PATENT-APPL-SN-59956	c 14	N72-27411 *
US-PATENT-APPL-SN-574219	c 35	N76-31490 *	US-PATENT-APPL-SN-587749	c 60	N88-29310 *	US-PATENT-APPL-SN-59966	c 21	N72-25595 *
US-PATENT-APPL-SN-574280	c 15	N69-21460 * #	US-PATENT-APPL-SN-587764	c 18	N86-24729 *	US-PATENT-APPL-SN-59968	c 15	N72-27484 *
US-PATENT-APPL-SN-574282	c 15	N69-23190 * #	US-PATENT-APPL-SN-587890	c 25	N91-15368 * #	US-PATENT-APPL-SN-59969	c 09	N72-25249 *
US-PATENT-APPL-SN-574282	c 15	N71-23025 *	US-PATENT-APPL-SN-587919	c 54	N91-13879 *	US-PATENT-APPL-SN-599975	c 08	N69-21928 * #
US-PATENT-APPL-SN-574283	c 14	N69-24257 * #	US-PATENT-APPL-SN-587920	c 71	N91-16707 * #	US-PATENT-APPL-SN-600266	c 14	N71-20430 *
US-PATENT-APPL-SN-574284	c 08	N71-19763 *	US-PATENT-APPL-SN-587921	c 74	N91-13996 * #	US-PATENT-APPL-SN-600682	c 14	N71-20461 *
US-PATENT-APPL-SN-574290	c 14	N71-20439 *	US-PATENT-APPL-SN-587922	c 61	N91-13911 * #	US-PATENT-APPL-SN-601130	c 31	N86-21718 *
US-PATENT-APPL-SN-575291	c 33	N71-29151 *	US-PATENT-APPL-SN-588036	c 18	N84-22612 * #	US-PATENT-APPL-SN-601228	c 15	N71-17652 *
US-PATENT-APPL-SN-575475	c 05	N69-23192 * #	US-PATENT-APPL-SN-588039	c 18	N87-14373 *	US-PATENT-APPL-SN-601229	c 14	N71-26474 *
US-PATENT-APPL-SN-575694	c 76	N91-14066 * #	US-PATENT-APPL-SN-588164	c 31	N85-29082 *	US-PATENT-APPL-SN-601954	c 76	N91-23933 * #
US-PATENT-APPL-SN-575695	c 35	N91-13684 * #	US-PATENT-APPL-SN-588635	c 21	N71-15642 *	US-PATENT-APPL-SN-601957	c 27	N91-15412 * #
US-PATENT-APPL-SN-575695	c 35	N92-21586 *	US-PATENT-APPL-SN-588651	c 31	N71-24813 *	US-PATENT-APPL-SN-602049	c 35	N86-32697 *
US-PATENT-APPL-SN-575697	c 39	N91-13767 * #	US-PATENT-APPL-SN-588671	c 03	N71-23354 *	US-PATENT-APPL-SN-602617	c 37	N77-23483 *
US-PATENT-APPL-SN-575708	c 76	N91-16815 * #	US-PATENT-APPL-SN-588721	c 27	N78-33228 *	US-PATENT-APPL-SN-602618	c 44	N76-31667 *
US-PATENT-APPL-SN-575737	c 18	N91-13481 * #	US-PATENT-APPL-SN-589119	c 32	N77-32342 *	US-PATENT-APPL-SN-60276	c 22	N73-32528 *
US-PATENT-APPL-SN-575930	c 06	N71-23230 *	US-PATENT-APPL-SN-589172	c 27	N79-14214 *	US-PATENT-APPL-SN-602828	c 09	N71-13531 *
US-PATENT-APPL-SN-576182	c 33	N71-24276 *	US-PATENT-APPL-SN-589173	c 32	N77-12240 *	US-PATENT-APPL-SN-603052	c 31	N91-25305 *
US-PATENT-APPL-SN-576183	c 09	N71-23525 *	US-PATENT-APPL-SN-589233	c 33	N77-14335 *	US-PATENT-APPL-SN-603055	c 27	N91-13566 * #
US-PATENT-APPL-SN-576195	c 14	N71-21079 *	US-PATENT-APPL-SN-589571	c 27	N91-13561 * #	US-PATENT-APPL-SN-603335	c 02	N91-27139 *
US-PATENT-APPL-SN-576308	c 07	N85-35194 *	US-PATENT-APPL-SN-590141	c 03	N69-24267 * #	US-PATENT-APPL-SN-603337	c 37	N91-32498 *
US-PATENT-APPL-SN-576488	c 44	N76-28635 *	US-PATENT-APPL-SN-590144	c 15	N71-15606 *	US-PATENT-APPL-SN-603374	c 37	N86-19606 *
US-PATENT-APPL-SN-576521	c 09	N71-20864 *	US-PATENT-APPL-SN-590145	c 07	N69-39980 * #	US-PATENT-APPL-SN-603375	c 28	N91-14495 *
US-PATENT-APPL-SN-576774	c 60	N77-19760 *	US-PATENT-APPL-SN-590146	c 09	N69-21926 * #	US-PATENT-APPL-SN-603396	c 14	N69-23191 * #
US-PATENT-APPL-SN-576792	c 14	N71-26136 *	US-PATENT-APPL-SN-590147	c 15	N71-21489 *	US-PATENT-APPL-SN-603397	c 26	N71-23292 *
US-PATENT-APPL-SN-576797	c 09	N69-24318 * #	US-PATENT-APPL-SN-590158	c 05	N71-24147 *	US-PATENT-APPL-SN-604337	c 27	N85-29044 *
US-PATENT-APPL-SN-577114	c 15	N69-24320 * #	US-PATENT-APPL-SN-590159	c 09	N69-24324 * #	US-PATENT-APPL-SN-604374	c 44	N76-29699 *
US-PATENT-APPL-SN-577115	c 15	N71-17647 *	US-PATENT-APPL-SN-590182	c 37	N76-29588 *	US-PATENT-APPL-SN-605090	c 15	N71-19485 *
US-PATENT-APPL-SN-577545	c 08	N71-18693 *	US-PATENT-APPL-SN-590183	c 74	N79-13855 *	US-PATENT-APPL-SN-605091	c 15	N71-26346 *
US-PATENT-APPL-SN-577546	c 31	N71-23008 *	US-PATENT-APPL-SN-590921	c 71	N86-21276 *	US-PATENT-APPL-SN-605092	c 05	N71-23317 *
US-PATENT-APPL-SN-577548	c 09	N69-27422 * #	US-PATENT-APPL-SN-590923	c 35	N85-34375 *	US-PATENT-APPL-SN-605093	c 17	N71-24911 *
US-PATENT-APPL-SN-577548	c 14	N72-28438 *	US-PATENT-APPL-SN-590925	c 26	N86-32550 *	US-PATENT-APPL-SN-605094	c 09	N71-24808 *
US-PATENT-APPL-SN-577549	c 15	N71-22721 *	US-PATENT-APPL-SN-590975	c 44	N78-31525 *	US-PATENT-APPL-SN-605095	c 10	N71-19417 *
US-PATENT-APPL-SN-577775	c 14	N71-17574 *	US-PATENT-APPL-SN-591000	c 15	N71-24044 *	US-PATENT-APPL-SN-605096	c 15	N71-24834 *
US-PATENT-APPL-SN-577778	c 03	N71-11050 *	US-PATENT-APPL-SN-591004	c 07	N71-11266 *	US-PATENT-APPL-SN-605097	c 14	N69-21923 * #
US-PATENT-APPL-SN-578043	c 24	N91-15333 * #	US-PATENT-APPL-SN-591007	c 16	N69-27491 * #	US-PATENT-APPL-SN-605098	c 09	N71-26092 *
US-PATENT-APPL-SN-578240	c 34	N77-18382 *	US-PATENT-APPL-SN-591014	c 28	N71-24736 *	US-PATENT-APPL-SN-605099	c 09	N71-23548 *
US-PATENT-APPL-SN-578241	c 52	N76-29896 *	US-PATENT-APPL-SN-591089	c 24	N85-21267 *	US-PATENT-APPL-SN-605100	c 15	N71-21536 *
US-PATENT-APPL-SN-578387	c 06	N87-22678 *	US-PATENT-APPL-SN-591568	c 74	N76-31998 *	US-PATENT-APPL-SN-605102	c 09	N69-39987 * #
US-PATENT-APPL-SN-578388	c 06	N86-27280 *	US-PATENT-APPL-SN-591569	c 37	N77-12402 *	US-PATENT-APPL-SN-60531	c 28	N70-37980 *
US-PATENT-APPL-SN-578390	c 44	N85-30475 *	US-PATENT-APPL-SN-591643	c 82	N91-23976 * #	US-PATENT-APPL-SN-60536	c 02	N70-38009 *
US-PATENT-APPL-SN-578397	c 20	N79-21124 *	US-PATENT-APPL-SN-591644	c 31	N91-31476 *	US-PATENT-APPL-SN-605518	c 15	N71-23023 *
US-PATENT-APPL-SN-578700	c 43	N82-13465 *	US-PATENT-APPL-SN-591645	c 31	N92-16162 *	US-PATENT-APPL-SN-605964	c 06	N73-30103 *
US-PATENT-APPL-SN-578916	c 14	N71-23036 *	US-PATENT-APPL-SN-591930	c 03	N69-21330 * #	US-PATENT-APPL-SN-605994	c 06	N73-30101 *
US-PATENT-APPL-SN-578923	c 15	N71-21403 *	US-PATENT-APPL-SN-592159	c 07	N76-27232 *	US-PATENT-APPL-SN-606027	c 06	N73-30099 *
US-PATENT-APPL-SN-578925	c 23	N71-16355 *	US-PATENT-APPL-SN-592680	c 15	N71-22877 *	US-PATENT-APPL-SN-606036	c 06	N73-30100 *
US-PATENT-APPL-SN-578926	c 06	N69-39936 * #	US-PATENT-APPL-SN-592694	c 05	N71-12342 *	US-PATENT-APPL-SN-606426	c 74	N86-29650 *
US-PATENT-APPL-SN-578928	c 26	N71-21824 *	US-PATENT-APPL-SN-593142	c 37	N77-17464 *	US-PATENT-APPL-SN-606431	c 37	N86-25791 *
US-PATENT-APPL-SN-578931	c 23	N71-21882 *	US-PATENT-APPL-SN-593412	c 25	N91-32196 *	US-PATENT-APPL-SN-606432	c 74	N87-21679 *
US-PATENT-APPL-SN-578932	c 08	N71-12505 *	US-PATENT-APPL-SN-593593	c 06	N71-11239 *	US-PATENT-APPL-SN-606462	c 08	N71-24891 *
US-PATENT-APPL-SN-579121	c 15	N71-29136 *	US-PATENT-APPL-SN-593594	c 06	N71-11236 *	US-PATENT-APPL-SN-606463	c 14	N71-24864 *
US-PATENT-APPL-SN-579300	c 20	N79-21123 *	US-PATENT-APPL-SN-593595	c 06	N71-24740 *	US-PATENT-APPL-SN-606464	c 15	N71-18579 *
US-PATENT-APPL-SN-579375	c 07	N77-14025 *	US-PATENT-APPL-SN-593604	c 11	N69-27466 * #	US-PATENT-APPL-SN-606891	c 44	N77-14581 *
US-PATENT-APPL-SN-579376	c 20	N79-21125 *	US-PATENT-APPL-SN-593605	c 06	N71-11242 *	US-PATENT-APPL-SN-606988	c 35	N91-15519 * #
US-PATENT-APPL-SN-579989	c 34	N77-32413 *	US-PATENT-APPL-SN-593606	c 06	N71-11243 *	US-PATENT-APPL-SN-607461	c 05	N71-12346 *
US-PATENT-APPL-SN-580365	c 15	N71-23255 *	US-PATENT-APPL-SN-593607	c 07	N71-26102 *	US-PATENT-APPL-SN-607484	c 09	N71-26002 *
US-PATENT-APPL-SN-580397	c 37	N87-21333 *	US-PATENT-APPL-SN-594134	c 74	N86-20125 *	US-PATENT-APPL-SN-607608	c 14	N69-27484 * #
US-PATENT-APPL-SN-580419	c 34	N85-33433 *	US-PATENT-APPL-SN-594584	c 14	N71-25892 *	US-PATENT-APPL-SN-607969	c 09	N76-32373 *
US-PATENT-APPL-SN-580573	c 44	N85-34441 *	US-PATENT-APPL-SN-594587	c 28	N71-21493 *	US-PATENT-APPL-SN-608247	c 15	N71-20813 *
US-PATENT-APPL-SN-580574	c 18	N84-22610 * #	US-PATENT-APPL-SN-594633	c 15	N71-24046 *	US-PATENT-APPL-SN-608452	c 74	N92-16809 *
US-PATENT-APPL-SN-58147	c 28	N70-33356 *	US-PATENT-APPL-SN-595197	c 33	N77-10429 *	US-PATENT-APPL-SN-608482	c 74	N77-20882 *
US-PATENT-APPL-SN-581514	c 70	N75-26789 * #	US-PATENT-APPL-SN-595254	c 17	N78-17140 *	US-PATENT-APPL-SN-608483	c 09	N77-19076 *
US-PATENT-APPL-SN-581750	c 07	N78-17055 *	US-PATENT-APPL-SN-595745	c 37	N77-32501 *	US-PATENT-APPL-SN-608493	c 24	N92-16025 *
US-PATENT-APPL-SN-581751	c 37	N78-10468 *	US-PATENT-APPL-SN-595747	c 37	N77-32500 *	US-PATENT-APPL-SN-608494	c 34	N91-23410 * #
US-PATENT-APPL-SN-581843	c 31	N79-21226 *	US-PATENT-APPL-SN-596105	c 35	N91-15520 * #	US-PATENT-APPL-SN-608657	c 37	N91-31656 *
US-PATENT-APPL-SN-582171	c 32	N71-16428 *	US-PATENT-APPL-SN-596133	c 74	N91-25841 *	US-PATENT-APPL-SN-608741	c 23	N85-28973 *
US-PATENT-APPL-SN-582213	c 32	N74-22096 *	US-PATENT-APPL-SN-596139	c 33	N91-13621 * #	US-PATENT-APPL-SN-60876	c 15	N72-27485 *
US-PATENT-APPL-SN-582318	c 33	N76-27472 *	US-PATENT-APPL-SN-596338	c 09	N71-20816 *	US-PATENT-APPL-SN-60881	c 32	N72-25877 *
US-PATENT-APPL-SN-582492	c 52	N85-30618 *	US-PATENT-APPL-SN-596641	c 07	N77-23106 *	US-PATENT-APPL-SN-60882	c 05	N73-32011 *
US-PATENT-APPL-SN-582494	c 36	N84-25037 * #	US-PATENT-APPL-SN-596641	c 37	N78-10467 *	US-PATENT-APPL-SN-60883	c 10	N73-13235 *
US-PATENT-APPL-SN-582495	c 44	N86-27706 *	US-PATENT-APPL-SN-596733	c 15	N72-11389 *	US-PATENT-APPL-SN-608944	c 15	N71-23798 *
US-PATENT-APPL-SN-582609	c 10	N71-19467 *	US-PATENT-APPL-SN-596735	c 32	N71-24285 *	US-PATENT-APPL-SN-60950	c 04	N73-27052 *
US-PATENT-APPL-SN-582643	c 35	N85-34374 *	US-PATENT-APPL-SN-596787	c 37	N77-19458 *	US-PATENT-APPL-SN-610723	c 14	N71-23755 *
US-PATENT-APPL-SN-583055	c 07	N78-18067 *	US-PATENT-APPL-SN-5					

US-PATENT-APPL-SN-610879	c 37	N92-22043 *	US-PATENT-APPL-SN-629759	c 15	N71-16076 *	US-PATENT-APPL-SN-641420	c 03	N71-23449 *
US-PATENT-APPL-SN-610883	c 37	N92-16122 *	US-PATENT-APPL-SN-630579	c 35	N77-24454 *	US-PATENT-APPL-SN-641431	c 30	N71-16090 *
US-PATENT-APPL-SN-611214	c 22	N92-10128 *	US-PATENT-APPL-SN-630583	c 33	N77-24375 *	US-PATENT-APPL-SN-641441	c 08	N71-18751 *
US-PATENT-APPL-SN-611414	c 46	N74-23068 *	US-PATENT-APPL-SN-631341	c 60	N78-17691 *	US-PATENT-APPL-SN-641784	c 37	N77-32499 *
US-PATENT-APPL-SN-611414	c 46	N74-23069 *	US-PATENT-APPL-SN-631444	c 16	N72-28521 *	US-PATENT-APPL-SN-641798	c 76	N82-22041 *
US-PATENT-APPL-SN-612265	c 14	N72-22442 *	US-PATENT-APPL-SN-631848	c 09	N71-12514 *	US-PATENT-APPL-SN-641802	c 34	N77-30399 *
US-PATENT-APPL-SN-612568	c 15	N71-28952 *	US-PATENT-APPL-SN-63195	c 14	N72-27408 *	US-PATENT-APPL-SN-641803	c 35	N78-18391 *
US-PATENT-APPL-SN-612740	c 25	N71-20563 *	US-PATENT-APPL-SN-632104	c 09	N71-19470 *	US-PATENT-APPL-SN-642224	c 17	N70-38490 *
US-PATENT-APPL-SN-612899	c 07	N77-18154 *	US-PATENT-APPL-SN-632111	c 37	N79-10422 *	US-PATENT-APPL-SN-642226	c 17	N70-38198 *
US-PATENT-APPL-SN-612964	c 20	N77-10148 *	US-PATENT-APPL-SN-632112	c 35	N77-22449 *	US-PATENT-APPL-SN-642310	c 44	N86-19721 *
US-PATENT-APPL-SN-612965	c 52	N77-14735 *	US-PATENT-APPL-SN-632152	c 10	N71-24798 *	US-PATENT-APPL-SN-642602	c 54	N86-29507 *
US-PATENT-APPL-SN-612966	c 35	N78-12390 *	US-PATENT-APPL-SN-632154	c 09	N69-39984 *	US-PATENT-APPL-SN-642765	c 76	N92-22040 *
US-PATENT-APPL-SN-612967	c 74	N77-18893 *	US-PATENT-APPL-SN-632162	c 14	N69-39937 *	US-PATENT-APPL-SN-643041	c 44	N78-19599 *
US-PATENT-APPL-SN-613004	c 71	N77-26919 *	US-PATENT-APPL-SN-632163	c 30	N71-23723 *	US-PATENT-APPL-SN-643043	c 35	N78-13400 *
US-PATENT-APPL-SN-613046	c 24	N91-15334 *	US-PATENT-APPL-SN-632164	c 15	N69-24319 *	US-PATENT-APPL-SN-643332	c 15	N71-14932 *
US-PATENT-APPL-SN-613139	c 27	N86-27450 *	US-PATENT-APPL-SN-632165	c 14	N71-26266 *	US-PATENT-APPL-SN-643522	c 16	N86-26352 *
US-PATENT-APPL-SN-613140	c 33	N86-20669 *	US-PATENT-APPL-SN-633178	c 25	N84-32447 *	US-PATENT-APPL-SN-643524	c 27	N86-29039 *
US-PATENT-APPL-SN-613235	c 14	N73-30394 *	US-PATENT-APPL-SN-633179	c 34	N86-12547 *	US-PATENT-APPL-SN-643589	c 27	N86-31727 *
US-PATENT-APPL-SN-61329	c 31	N70-37986 *	US-PATENT-APPL-SN-633180	c 09	N89-25242 *	US-PATENT-APPL-SN-643897	c 73	N78-32848 *
US-PATENT-APPL-SN-613734	c 52	N77-14738 *	US-PATENT-APPL-SN-633363	c 25	N86-25428 *	US-PATENT-APPL-SN-64391	c 31	N72-25842 *
US-PATENT-APPL-SN-613979	c 33	N71-14035 *	US-PATENT-APPL-SN-633746	c 74	N91-23890 *	US-PATENT-APPL-SN-644444	c 09	N71-18721 *
US-PATENT-APPL-SN-615030	c 35	N78-19465 *	US-PATENT-APPL-SN-63383	c 08	N72-20177 *	US-PATENT-APPL-SN-644446	c 14	N71-24693 *
US-PATENT-APPL-SN-61535	c 15	N72-25453 *	US-PATENT-APPL-SN-63384	c 05	N72-22093 *	US-PATENT-APPL-SN-644447	c 14	N71-24234 *
US-PATENT-APPL-SN-615505	c 34	N85-29180 *	US-PATENT-APPL-SN-633876	c 27	N78-19302 *	US-PATENT-APPL-SN-644448	c 17	N69-25147 *
US-PATENT-APPL-SN-615668	c 63	N91-23783 *	US-PATENT-APPL-SN-633877	c 27	N77-13217 *	US-PATENT-APPL-SN-644799	c 17	N71-15468 *
US-PATENT-APPL-SN-616002	c 34	N86-27593 *	US-PATENT-APPL-SN-634038	c 25	N71-16073 *	US-PATENT-APPL-SN-645089	c 23	N91-23237 *
US-PATENT-APPL-SN-616332	c 24	N77-27188 *	US-PATENT-APPL-SN-634040	c 15	N71-19489 *	US-PATENT-APPL-SN-645500	c 74	N77-28932 *
US-PATENT-APPL-SN-616333	c 33	N76-32457 *	US-PATENT-APPL-SN-634060	c 09	N69-39897 *	US-PATENT-APPL-SN-645502	c 24	N79-25143 *
US-PATENT-APPL-SN-616472	c 74	N77-22951 *	US-PATENT-APPL-SN-634205	c 35	N77-14406 *	US-PATENT-APPL-SN-645507	c 26	N77-32280 *
US-PATENT-APPL-SN-616528	c 24	N80-33482 *	US-PATENT-APPL-SN-634214	c 73	N78-28913 *	US-PATENT-APPL-SN-645508	c 44	N77-14580 *
US-PATENT-APPL-SN-617021	c 23	N71-16101 *	US-PATENT-APPL-SN-634304	c 27	N79-18052 *	US-PATENT-APPL-SN-645510	c 32	N77-30308 *
US-PATENT-APPL-SN-617022	c 07	N69-27462 *	US-PATENT-APPL-SN-635325	c 14	N69-27431 *	US-PATENT-APPL-SN-645563	c 31	N71-20396 *
US-PATENT-APPL-SN-617202	c 74	N77-28933 *	US-PATENT-APPL-SN-635326	c 14	N71-18482 *	US-PATENT-APPL-SN-645571	c 35	N77-14407 *
US-PATENT-APPL-SN-617612	c 52	N77-10780 *	US-PATENT-APPL-SN-635327	c 12	N69-39988 *	US-PATENT-APPL-SN-645573	c 24	N71-25555 *
US-PATENT-APPL-SN-617752	c 37	N92-16318 *	US-PATENT-APPL-SN-635328	c 09	N69-21467 *	US-PATENT-APPL-SN-645584	c 08	N71-12494 *
US-PATENT-APPL-SN-617770	c 14	N71-23267 *	US-PATENT-APPL-SN-63532	c 08	N72-25209 *	US-PATENT-APPL-SN-645972	c 33	N92-15331 *
US-PATENT-APPL-SN-617774	c 18	N71-16124 *	US-PATENT-APPL-SN-635519	c 35	N77-24455 *	US-PATENT-APPL-SN-646044	c 37	N85-34403 *
US-PATENT-APPL-SN-617775	c 06	N71-28807 *	US-PATENT-APPL-SN-635531	c 33	N77-14334 *	US-PATENT-APPL-SN-646124	c 15	N71-23817 *
US-PATENT-APPL-SN-617776	c 18	N69-39895 *	US-PATENT-APPL-SN-635970	c 15	N69-21465 *	US-PATENT-APPL-SN-646333	c 35	N80-26635 *
US-PATENT-APPL-SN-617778	c 14	N71-26244 *	US-PATENT-APPL-SN-635972	c 18	N71-23710 *	US-PATENT-APPL-SN-646424	c 07	N69-27460 *
US-PATENT-APPL-SN-617779	c 09	N69-39929 *	US-PATENT-APPL-SN-63610	c 06	N72-25147 *	US-PATENT-APPL-SN-646704	c 36	N77-25499 *
US-PATENT-APPL-SN-617783	c 15	N69-24266 *	US-PATENT-APPL-SN-636193	c 74	N78-15880 *	US-PATENT-APPL-SN-646934	c 08	N71-18692 *
US-PATENT-APPL-SN-617871	c 27	N85-29043 *	US-PATENT-APPL-SN-636459	c 44	N87-21410 *	US-PATENT-APPL-SN-64709	c 10	N72-28240 *
US-PATENT-APPL-SN-617895	c 32	N77-14292 *	US-PATENT-APPL-SN-636463	c 20	N87-16875 *	US-PATENT-APPL-SN-64723	c 07	N72-25170 *
US-PATENT-APPL-SN-618594	c 37	N77-13418 *	US-PATENT-APPL-SN-636465	c 37	N85-29284 *	US-PATENT-APPL-SN-647298	c 31	N71-16102 *
US-PATENT-APPL-SN-618790	c 47	N91-23662 *	US-PATENT-APPL-SN-636531	c 37	N91-23490 *	US-PATENT-APPL-SN-647902	c 07	N91-23180 *
US-PATENT-APPL-SN-618854	c 27	N92-16123 *	US-PATENT-APPL-SN-636532	c 37	N91-21525 *	US-PATENT-APPL-SN-648034	c 09	N79-21083 *
US-PATENT-APPL-SN-61894	c 12	N72-21310 *	US-PATENT-APPL-SN-636796	c 35	N78-17358 *	US-PATENT-APPL-SN-648700	c 74	N78-13874 *
US-PATENT-APPL-SN-61895	c 07	N72-33146 *	US-PATENT-APPL-SN-636878	c 14	N71-20442 *	US-PATENT-APPL-SN-648772	c 37	N91-23491 *
US-PATENT-APPL-SN-618969	c 05	N71-26333 *	US-PATENT-APPL-SN-637247	c 35	N77-10493 *	US-PATENT-APPL-SN-648772	c 37	N92-21726 *
US-PATENT-APPL-SN-619519	c 32	N71-16106 *	US-PATENT-APPL-SN-637249	c 38	N76-28563 *	US-PATENT-APPL-SN-649075	c 14	N71-15600 *
US-PATENT-APPL-SN-619520	c 05	N69-21380 *	US-PATENT-APPL-SN-637268	c 47	N77-10753 *	US-PATENT-APPL-SN-649076	c 08	N71-24890 *
US-PATENT-APPL-SN-619521	c 06	N69-39889 *	US-PATENT-APPL-SN-637269	c 52	N77-28717 *	US-PATENT-APPL-SN-649078	c 07	N71-19493 *
US-PATENT-APPL-SN-619903	c 15	N69-27505 *	US-PATENT-APPL-SN-637882	c 15	N71-17650 *	US-PATENT-APPL-SN-649327	c 33	N87-25531 *
US-PATENT-APPL-SN-619907	c 09	N69-21543 *	US-PATENT-APPL-SN-638192	c 10	N71-26415 *	US-PATENT-APPL-SN-649328	c 27	N86-19456 *
US-PATENT-APPL-SN-619908	c 08	N71-20571 *	US-PATENT-APPL-SN-638194	c 33	N71-21507 *	US-PATENT-APPL-SN-649329	c 05	N84-33400 *
US-PATENT-APPL-SN-619986	c 37	N75-32465 *	US-PATENT-APPL-SN-638541	c 33	N86-20671 *	US-PATENT-APPL-SN-649330	c 27	N86-19458 *
US-PATENT-APPL-SN-620675	c 35	N78-19466 *	US-PATENT-APPL-SN-638584	c 33	N86-20670 *	US-PATENT-APPL-SN-649336	c 09	N71-23189 *
US-PATENT-APPL-SN-621098	c 09	N71-20446 *	US-PATENT-APPL-SN-638586	c 32	N87-21207 *	US-PATENT-APPL-SN-649357	c 08	N71-12500 *
US-PATENT-APPL-SN-621144	c 02	N91-16999 *	US-PATENT-APPL-SN-638600	c 25	N91-24362 *	US-PATENT-APPL-SN-649358	c 07	N71-11267 *
US-PATENT-APPL-SN-621144	c 02	N92-21588 *	US-PATENT-APPL-SN-638707	c 14	N69-27486 *	US-PATENT-APPL-SN-649359	c 15	N71-18701 *
US-PATENT-APPL-SN-621714	c 15	N71-19569 *	US-PATENT-APPL-SN-639589	c 28	N70-33372 *	US-PATENT-APPL-SN-649360	c 23	N71-16365 *
US-PATENT-APPL-SN-621715	c 05	N71-11207 *	US-PATENT-APPL-SN-640154	c 09	N71-18600 *	US-PATENT-APPL-SN-650166	c 09	N71-23191 *
US-PATENT-APPL-SN-621742	c 28	N71-23968 *	US-PATENT-APPL-SN-640447	c 15	N71-19486 *	US-PATENT-APPL-SN-650336	c 23	N92-10066 *
US-PATENT-APPL-SN-623156	c 04	N77-19056 *	US-PATENT-APPL-SN-640448	c 08	N71-19420 *	US-PATENT-APPL-SN-651002	c 08	N79-14108 *
US-PATENT-APPL-SN-623187	c 34	N77-19353 *	US-PATENT-APPL-SN-640449	c 09	N71-19516 *	US-PATENT-APPL-SN-651007	c 74	N78-17865 *
US-PATENT-APPL-SN-623188	c 54	N77-21844 *	US-PATENT-APPL-SN-640450	c 15	N71-17694 *	US-PATENT-APPL-SN-651009	c 26	N78-18182 *
US-PATENT-APPL-SN-623238	c 51	N77-25769 *	US-PATENT-APPL-SN-640452	c 09	N71-12513 *	US-PATENT-APPL-SN-651062	c 27	N92-11199 *
US-PATENT-APPL-SN-623389	c 31	N81-15154 *	US-PATENT-APPL-SN-640453	c 23	N71-16099 *	US-PATENT-APPL-SN-651627	c 26	N72-25679 *
US-PATENT-APPL-SN-623536	c 09	N78-18083 *	US-PATENT-APPL-SN-640454	c 06	N71-11238 *	US-PATENT-APPL-SN-651972	c 27	N74-23125 *
US-PATENT-APPL-SN-625077	c 44	N86-25874 *	US-PATENT-APPL-SN-640455	c 10	N71-23099 *	US-PATENT-APPL-SN-652948	c 52	N77-14736 *
US-PATENT-APPL-SN-625344	c 34	N92-16241 *	US-PATENT-APPL-SN-640456	c 03	N71-26726 *	US-PATENT-APPL-SN-652979	c 45	N82-11634 *
US-PATENT-APPL-SN-625345	c 51	N91-17531 *	US-PATENT-APPL-SN-640457	c 03	N71-11052 *	US-PATENT-APPL-SN-653277	c 31	N71-23912 *
US-PATENT-APPL-SN-625436	c 33	N90-20320 *	US-PATENT-APPL-SN-640458	c 15	N71-23811 *	US-PATENT-APPL-SN-653278	c 14	N69-27503 *
US-PATENT-APPL-SN-625732	c 35	N77-18417 *	US-PATENT-APPL-SN-640459	c 10	N71-18723 *	US-PATENT-APPL-SN-653316	c 25	N77-32255 *
US-PATENT-APPL-SN-625733	c 26	N77-28265 *	US-PATENT-APPL-SN-640460	c 14	N69-21541 *	US-PATENT-APPL-SN-653422	c 35	N77-20401 *
US-PATENT-APPL-SN-625734	c 35	N78-10428 *	US-PATENT-APPL-SN-640462	c 15	N71-20443 *	US-PATENT-APPL-SN-653578	c 60	N92-12438 *
US-PATENT-APPL-SN-625759	c 37	N77-14478 *	US-PATENT-APPL-SN-640712	c 24	N85-35233 *	US-PATENT-APPL-SN-653605	c 74	N91-23889 *
US-PATENT-APPL-SN-625781	c 33	N77-31404 *	US-PATENT-APPL-SN-640775	c 35	N91-23462 *	US-PATENT-APPL-SN-653682	c 39	N78-10493 *
US-PATENT-APPL-SN-626376	c 05	N71-11189 *	US-PATENT-APPL-SN-640775	c 35	N92-22039 *	US-PATENT-APPL-SN-654454	c 37	N92-21500 *
US-PATENT-APPL-SN-626942	c 51	N77-27677 *	US-PATENT-APPL-SN-640781	c 03	N69-25146 *	US-PATENT-APPL-SN-654704	c 37	N91-24577 *
US-PATENT-APPL-SN-627257	c 08	N71-12504 *	US-PATENT-APPL-SN-640783	c 09	N71-26000 *	US-PATENT-APPL-SN-654704	c 31	N92-16161 *
US-PATENT-APPL-SN-627537	c 71	N88-24241 *	US-PATENT-APPL-SN-640784	c 15	N69-39935 *	US-PATENT-APPL-SN-654787	c 07	N77-32148 *
US-PATENT-APPL-SN-627599	c 18	N71-16046 *	US-PATENT-APPL-SN-640785	c 09	N69-24333 *	US-PATENT-APPL-SN-655149	c 07	N77-23106 *
US-PATENT-APPL-SN-628062	c 25	N91-28321 *	US-PATENT-APPL-SN-640786	c 15	N71-24695 *	US-PATENT-APPL-SN-65548	c 18	N70-39897 *
US-PATENT-APPL-SN-628094	c 16	N71-20400 *	US-PATENT-APPL-SN-640787	c 28	N71-24321 *	US-PATENT-APPL-SN-655601	c 32	N86-27513 *
US-PATENT-APPL-SN-628221	c 07	N78-18066 *	US-PATENT-APPL-SN-640788	c 15	N69-27502 *	US-PATENT-APPL-SN-655605	c 52	N87-24874 *
US-PATENT-APPL-SN-628246	c 15	N71-17687 *	US-PATENT-APPL-SN-640789	c 15	N69-27504 *	US-PATENT-APPL-SN-655606	c 32	N89-14374 *
US-PATENT-APPL-SN-628247	c 09	N69-21542 *	US-PATENT-APPL-SN-641142	c 23	N86-32525 *	US-PATENT-APPL-SN-655677	c 17	N71-24142 *
US-PATENT-APPL-SN-628248	c 14	N69-27432 *	US-PATENT-APPL-SN-641143	c 27	N85-34280 *	US-PATENT-APPL-SN-655677	c 08	N71-19432 *
US-PATENT-APPL-SN-628259	c 37	N91-17401 *	US-PATENT-APPL-SN-641146	c 76	N87-13313 *	US-PATENT-APPL-SN-655724	c 15	N71-22706 *
US-PATENT-APPL-SN-628866	c 31	N85-20153 *	US-PATENT-APPL-SN-641147	c 27	N87-23751 *	US-PATENT-APPL-SN-656925	c 37	N91-23492 *
US-PATENT-APPL-SN-629456	c 37	N77-14479 *	US-PATENT-APPL-SN-641152	c 23	N87-28605 *	US-PATENT-APPL-SN-656952	c 09	N71-12519 *
US-PATENT-APPL-SN-								

US-PATENT-APPL-SN-657238	c 24	N91-25201 *	#	US-PATENT-APPL-SN-668968	c 09	N71-12515 *	US-PATENT-APPL-SN-681041	c 37	N86-27629 *
US-PATENT-APPL-SN-657309	c 31	N86-29055 *		US-PATENT-APPL-SN-668969	c 08	N71-19288 *	US-PATENT-APPL-SN-681096	c 44	N77-32582 *
US-PATENT-APPL-SN-657310	c 35	N87-14670 *		US-PATENT-APPL-SN-668971	c 07	N78-33101 *	US-PATENT-APPL-SN-681288	c 36	N92-16290 *
US-PATENT-APPL-SN-657586	c 37	N91-26542 *	#	US-PATENT-APPL-SN-669140	c 44	N86-32875 *	US-PATENT-APPL-SN-681687	c 03	N71-20273 *
US-PATENT-APPL-SN-657586	c 37	N91-25415 *	#	US-PATENT-APPL-SN-669336	c 15	N71-17651 *	US-PATENT-APPL-SN-681692	c 08	N71-12506 *
US-PATENT-APPL-SN-657598	c 37	N92-21727 *		US-PATENT-APPL-SN-669911	c 33	N78-17295 *	US-PATENT-APPL-SN-681693	c 09	N71-18598 *
US-PATENT-APPL-SN-657742	c 18	N71-26100 *		US-PATENT-APPL-SN-669928	c 44	N77-22607 *	US-PATENT-APPL-SN-681942	c 18	N71-15688 *
US-PATENT-APPL-SN-657903	c 07	N83-33884 *		US-PATENT-APPL-SN-670814	c 03	N71-19545 *	US-PATENT-APPL-SN-682151	c 28	N91-28444 *
US-PATENT-APPL-SN-657907	c 27	N78-17213 *		US-PATENT-APPL-SN-670829	c 28	N72-23809 *	US-PATENT-APPL-SN-682153	c 31	N91-28455 *
US-PATENT-APPL-SN-657995	c 35	N77-22450 *		US-PATENT-APPL-SN-671603	c 51	N91-25570 *	US-PATENT-APPL-SN-682160	c 27	N91-26375 *
US-PATENT-APPL-SN-657996	c 60	N78-10709 *		US-PATENT-APPL-SN-672209	c 52	N82-22875 *	US-PATENT-APPL-SN-682416	c 34	N77-24423 *
US-PATENT-APPL-SN-657997	c 60	N77-32731 *		US-PATENT-APPL-SN-672210	c 25	N78-10224 *	US-PATENT-APPL-SN-682435	c 27	N77-32308 *
US-PATENT-APPL-SN-657998	c 27	N78-32262 *		US-PATENT-APPL-SN-672219	c 37	N80-28711 *	US-PATENT-APPL-SN-683073	c 44	N81-29525 *
US-PATENT-APPL-SN-658132	c 44	N77-32580 *		US-PATENT-APPL-SN-672219	c 37	N81-26447 *	US-PATENT-APPL-SN-683073	c 44	N82-28780 *
US-PATENT-APPL-SN-658133	c 71	N78-10837 *		US-PATENT-APPL-SN-672220	c 31	N78-17237 *	US-PATENT-APPL-SN-683101	c 33	N87-21235 *
US-PATENT-APPL-SN-65840	c 10	N72-20225 *		US-PATENT-APPL-SN-672221	c 07	N78-27121 *	US-PATENT-APPL-SN-683111	c 33	N87-22894 *
US-PATENT-APPL-SN-658449	c 32	N77-20289 *		US-PATENT-APPL-SN-672222	c 07	N78-25090 *	US-PATENT-APPL-SN-683465	c 27	N82-29451 *
US-PATENT-APPL-SN-658450	c 37	N77-22482 *		US-PATENT-APPL-SN-672223	c 51	N78-27733 *	US-PATENT-APPL-SN-683507	c 15	N71-15609 *
US-PATENT-APPL-SN-658477	c 71	N92-10609 *	#	US-PATENT-APPL-SN-672224	c 37	N86-25790 *	US-PATENT-APPL-SN-683606	c 09	N71-24717 *
US-PATENT-APPL-SN-658487	c 37	N81-25371 *		US-PATENT-APPL-SN-672382	c 15	N71-23815 *	US-PATENT-APPL-SN-683612	c 01	N69-39981 *
US-PATENT-APPL-SN-658911	c 16	N92-16007 *		US-PATENT-APPL-SN-672383	c 15	N71-24045 *	US-PATENT-APPL-SN-683613	c 15	N71-15610 *
US-PATENT-APPL-SN-658955	c 14	N71-15605 *		US-PATENT-APPL-SN-672384	c 15	N71-27067 *	US-PATENT-APPL-SN-684045	c 07	N80-26298 *
US-PATENT-APPL-SN-658956	c 15	N71-15607 *		US-PATENT-APPL-SN-672388	c 26	N72-17820 *	US-PATENT-APPL-SN-684083	c 09	N71-24596 *
US-PATENT-APPL-SN-658957	c 14	N71-17584 *		US-PATENT-APPL-SN-672636	c 37	N79-11405 *	US-PATENT-APPL-SN-684171	c 26	N78-18183 *
US-PATENT-APPL-SN-658964	c 19	N71-26674 *		US-PATENT-APPL-SN-672695	c 27	N78-17206 *	US-PATENT-APPL-SN-684178	c 15	N71-23812 *
US-PATENT-APPL-SN-658999	c 44	N82-24645 *		US-PATENT-APPL-SN-672815	c 37	N77-23482 *	US-PATENT-APPL-SN-684186	c 35	N88-29150 *
US-PATENT-APPL-SN-659474	c 35	N86-26595 *		US-PATENT-APPL-SN-673226	c 08	N71-12502 *	US-PATENT-APPL-SN-684190	c 54	N86-28619 *
US-PATENT-APPL-SN-659475	c 31	N86-32587 *		US-PATENT-APPL-SN-673227	c 11	N71-24964 *	US-PATENT-APPL-SN-684192	c 54	N86-28620 *
US-PATENT-APPL-SN-659882	c 37	N78-13436 *		US-PATENT-APPL-SN-673228	c 07	N71-19433 *	US-PATENT-APPL-SN-684193	c 54	N86-28618 *
US-PATENT-APPL-SN-66004	c 15	N72-25450 *		US-PATENT-APPL-SN-673229	c 33	N71-15641 *	US-PATENT-APPL-SN-684194	c 35	N85-20300 *
US-PATENT-APPL-SN-660371	c 32	N92-10125 *	#	US-PATENT-APPL-SN-673685	c 60	N87-21591 *	US-PATENT-APPL-SN-684209	c 10	N71-19418 *
US-PATENT-APPL-SN-660571	c 26	N71-23654 *		US-PATENT-APPL-SN-674194	c 27	N78-17215 *	US-PATENT-APPL-SN-684807	c 75	N78-27913 *
US-PATENT-APPL-SN-660572	c 15	N71-15571 *		US-PATENT-APPL-SN-674195	c 74	N78-17866 *	US-PATENT-APPL-SN-684894	c 17	N71-26773 *
US-PATENT-APPL-SN-660573	c 15	N71-28936 *		US-PATENT-APPL-SN-674355	c 14	N71-20429 *	US-PATENT-APPL-SN-685027	c 25	N78-10225 *
US-PATENT-APPL-SN-660755	c 37	N91-23493 *	#	US-PATENT-APPL-SN-674356	c 14	N71-23699 *	US-PATENT-APPL-SN-685062	c 35	N92-22038 *
US-PATENT-APPL-SN-660841	c 14	N71-15621 *		US-PATENT-APPL-SN-674357	c 05	N71-12351 *	US-PATENT-APPL-SN-685463	c 15	N71-23254 *
US-PATENT-APPL-SN-660842	c 14	N71-23726 *		US-PATENT-APPL-SN-674395	c 76	N87-23286 *	US-PATENT-APPL-SN-685473	c 17	N71-16044 *
US-PATENT-APPL-SN-660843	c 08	N71-24650 *		US-PATENT-APPL-SN-674636	c 31	N91-25306 *	US-PATENT-APPL-SN-685497	c 07	N69-39974 *
US-PATENT-APPL-SN-6610	c 15	N72-22492 *		US-PATENT-APPL-SN-674700	c 27	N77-31308 *	US-PATENT-APPL-SN-685607	c 37	N86-21850 *
US-PATENT-APPL-SN-661170	c 14	N71-24809 *		US-PATENT-APPL-SN-674828	c 52	N91-28727 *	US-PATENT-APPL-SN-685748	c 07	N71-11282 *
US-PATENT-APPL-SN-661481	c 26	N88-14179 *		US-PATENT-APPL-SN-675238	c 10	N71-26374 *	US-PATENT-APPL-SN-685750	c 27	N71-16392 *
US-PATENT-APPL-SN-6615	c 03	N72-25019 *		US-PATENT-APPL-SN-675328	c 35	N78-15461 *	US-PATENT-APPL-SN-685764	c 14	N69-27459 *
US-PATENT-APPL-SN-6616	c 03	N72-22042 *		US-PATENT-APPL-SN-675351	c 35	N78-10429 *	US-PATENT-APPL-SN-685766	c 15	N69-21924 *
US-PATENT-APPL-SN-6617	c 15	N72-22488 *		US-PATENT-APPL-SN-675471	c 33	N90-20282 *	US-PATENT-APPL-SN-685787	c 14	N71-18625 *
US-PATENT-APPL-SN-66206	c 11	N73-13257 *		US-PATENT-APPL-SN-676012	c 05	N71-11193 *	US-PATENT-APPL-SN-685962	c 35	N91-23460 *
US-PATENT-APPL-SN-662175	c 09	N77-27131 *		US-PATENT-APPL-SN-676375	c 14	N71-18483 *	US-PATENT-APPL-SN-686209	c 15	N71-23809 *
US-PATENT-APPL-SN-662176	c 32	N77-21267 *		US-PATENT-APPL-SN-676386	c 08	N71-12507 *	US-PATENT-APPL-SN-686248	c 14	N71-26774 *
US-PATENT-APPL-SN-662181	c 25	N82-21269 *		US-PATENT-APPL-SN-676387	c 10	N71-25950 *	US-PATENT-APPL-SN-686296	c 18	N71-14014 *
US-PATENT-APPL-SN-662182	c 37	N78-27424 *		US-PATENT-APPL-SN-676391	c 21	N71-11766 *	US-PATENT-APPL-SN-686331	c 38	N78-32447 *
US-PATENT-APPL-SN-662182	c 35	N79-26372 *		US-PATENT-APPL-SN-676432	c 28	N78-24365 *	US-PATENT-APPL-SN-686344	c 15	N71-17688 *
US-PATENT-APPL-SN-662684	c 27	N91-26376 *	#	US-PATENT-APPL-SN-676432	c 28	N80-20402 *	US-PATENT-APPL-SN-686449	c 34	N78-18355 *
US-PATENT-APPL-SN-662763	c 15	N73-12489 *		US-PATENT-APPL-SN-676432	c 28	N81-14103 *	US-PATENT-APPL-SN-686796	c 15	N70-33311 *
US-PATENT-APPL-SN-662828	c 11	N71-18578 *		US-PATENT-APPL-SN-676433	c 52	N77-28716 *	US-PATENT-APPL-SN-686933	c 14	N71-17588 *
US-PATENT-APPL-SN-662829	c 15	N71-15597 *		US-PATENT-APPL-SN-676910	c 44	N91-23617 *	US-PATENT-APPL-SN-686959	c 02	N88-14071 *
US-PATENT-APPL-SN-663008	c 37	N77-28486 *		US-PATENT-APPL-SN-676957	c 32	N77-18307 *	US-PATENT-APPL-SN-687251	c 52	N79-12694 *
US-PATENT-APPL-SN-663180	c 10	N71-23663 *		US-PATENT-APPL-SN-676958	c 54	N76-22914 *	US-PATENT-APPL-SN-687606	c 37	N91-26543 *
US-PATENT-APPL-SN-663840	c 27	N86-20561 *		US-PATENT-APPL-SN-676958	c 52	N81-25661 *	US-PATENT-APPL-SN-687822	c 44	N78-14625 *
US-PATENT-APPL-SN-664008	c 54	N92-16559 *		US-PATENT-APPL-SN-677008	c 37	N91-28579 *	US-PATENT-APPL-SN-688742	c 15	N71-20441 *
US-PATENT-APPL-SN-664091	c 43	N79-17288 *		US-PATENT-APPL-SN-677008	c 37	N92-21728 *	US-PATENT-APPL-SN-688743	c 15	N71-20393 *
US-PATENT-APPL-SN-664194	c 39	N92-10202 *	#	US-PATENT-APPL-SN-677182	c 33	N91-25335 *	US-PATENT-APPL-SN-688805	c 14	N71-17701 *
US-PATENT-APPL-SN-665032	c 74	N77-22950 *		US-PATENT-APPL-SN-67730	c 15	N73-13463 *	US-PATENT-APPL-SN-688807	c 03	N71-23239 *
US-PATENT-APPL-SN-665033	c 20	N77-20162 *		US-PATENT-APPL-SN-677351	c 35	N77-32455 *	US-PATENT-APPL-SN-688852	c 44	N78-28594 *
US-PATENT-APPL-SN-665209	c 14	N71-23725 *		US-PATENT-APPL-SN-677352	c 43	N78-10529 *	US-PATENT-APPL-SN-688854	c 54	N77-32722 *
US-PATENT-APPL-SN-665509	c 74	N91-32923 *	#	US-PATENT-APPL-SN-677353	c 52	N78-14773 *	US-PATENT-APPL-SN-688856	c 54	N78-32720 *
US-PATENT-APPL-SN-665676	c 14	N71-19568 *		US-PATENT-APPL-SN-677373	c 24	N92-18561 *	US-PATENT-APPL-SN-688868	c 15	N71-17686 *
US-PATENT-APPL-SN-665679	c 15	N71-20395 *		US-PATENT-APPL-SN-677475	c 32	N71-26681 *	US-PATENT-APPL-SN-689455	c 54	N74-32546 *
US-PATENT-APPL-SN-665680	c 24	N71-16213 *		US-PATENT-APPL-SN-677476	c 14	N71-17586 *	US-PATENT-APPL-SN-690144	c 09	N91-26159 *
US-PATENT-APPL-SN-665681	c 15	N71-18616 *		US-PATENT-APPL-SN-677505	c 09	N71-13521 *	US-PATENT-APPL-SN-690163	c 14	N71-18465 *
US-PATENT-APPL-SN-665734	c 35	N78-18390 *		US-PATENT-APPL-SN-677506	c 16	N71-15567 *	US-PATENT-APPL-SN-690172	c 11	N72-22245 *
US-PATENT-APPL-SN-665736	c 33	N91-28490 *	#	US-PATENT-APPL-SN-677508	c 16	N71-15551 *	US-PATENT-APPL-SN-690198	c 35	N91-28546 *
US-PATENT-APPL-SN-666551	c 14	N71-23698 *		US-PATENT-APPL-SN-67815	c 28	N72-22771 *	US-PATENT-APPL-SN-690273	c 20	N87-14420 *
US-PATENT-APPL-SN-666553	c 03	N71-11055 *		US-PATENT-APPL-SN-678520	c 20	N78-24275 *	US-PATENT-APPL-SN-690274	c 05	N87-14314 *
US-PATENT-APPL-SN-666554	c 33	N71-16104 *		US-PATENT-APPL-SN-678551	c 37	N91-28580 *	US-PATENT-APPL-SN-690815	c 32	N77-24328 *
US-PATENT-APPL-SN-666555	c 07	N71-24614 *		US-PATENT-APPL-SN-678553	c 14	N91-28184 *	US-PATENT-APPL-SN-690816	c 37	N78-25426 *
US-PATENT-APPL-SN-666992	c 27	N77-30236 *		US-PATENT-APPL-SN-678700	c 05	N71-19439 *	US-PATENT-APPL-SN-690997	c 16	N71-24828 *
US-PATENT-APPL-SN-667010	c 34	N77-27345 *		US-PATENT-APPL-SN-678780	c 09	N91-25155 *	US-PATENT-APPL-SN-690998	c 30	N71-15990 *
US-PATENT-APPL-SN-667625	c 31	N71-15674 *		US-PATENT-APPL-SN-678813	c 33	N81-29342 *	US-PATENT-APPL-SN-691046	c 36	N77-25501 *
US-PATENT-APPL-SN-667636	c 03	N71-20491 *		US-PATENT-APPL-SN-679055	c 08	N71-24633 *	US-PATENT-APPL-SN-691256	c 35	N77-31465 *
US-PATENT-APPL-SN-667637	c 28	N71-14044 *		US-PATENT-APPL-SN-679862	c 20	N71-16340 *	US-PATENT-APPL-SN-691609	c 37	N91-28578 *
US-PATENT-APPL-SN-667928	c 35	N77-30436 *		US-PATENT-APPL-SN-679885	c 09	N71-12521 *	US-PATENT-APPL-SN-691610	c 18	N91-25167 *
US-PATENT-APPL-SN-667929	c 33	N79-14346 *		US-PATENT-APPL-SN-679980	c 44	N82-24642 *	US-PATENT-APPL-SN-691647	c 52	N82-11770 *
US-PATENT-APPL-SN-667930	c 32	N77-28346 *		US-PATENT-APPL-SN-679987	c 44	N82-24644 *	US-PATENT-APPL-SN-691735	c 09	N71-12520 *
US-PATENT-APPL-SN-668116	c 35	N76-16391 *		US-PATENT-APPL-SN-679996	c 44	N82-24643 *	US-PATENT-APPL-SN-691736	c 18	N71-16210 *
US-PATENT-APPL-SN-668238	c 15	N71-15608 *		US-PATENT-APPL-SN-680015	c 52	N79-14750 *	US-PATENT-APPL-SN-691737	c 07	N71-24742 *
US-PATENT-APPL-SN-668241	c 15	N71-17685 *		US-PATENT-APPL-SN-680048	c 44	N82-24641 *	US-PATENT-APPL-SN-691738	c 08	N71-18694 *
US-PATENT-APPL-SN-668242	c 10	N71-27272 *		US-PATENT-APPL-SN-680067	c 07	N77-27116 *	US-PATENT-APPL-SN-691739	c 32	N71-15974 *
US-PATENT-APPL-SN-668247	c 09	N71-20445 *		US-PATENT-APPL-SN-68023	c 05	N72-33096 *	US-PATENT-APPL-SN-691909	c 05	N71-24606 *
US-PATENT-APPL-SN-668248	c 10	N71-26331 *		US-PATENT-APPL-SN-68024	c 17	N72-22535 *	US-PATENT-APPL-SN-691936	c 26	N77-32279 *
US-PATENT-APPL-SN-668249	c 03	N71-20407 *		US-PATENT-APPL-SN-680605	c 37	N91-14616 *	US-PATENT-APPL-SN-692029	c 15	N72-21463 *
US-PATENT-APPL-SN-668257	c 23	N71-16100 *		US-PATENT-APPL-SN-680938	c 74	N77-26942 *	US-PATENT-APPL-SN-692284	c 27	N78-14164 *
US-PATENT-APPL-SN-668302	c 07	N71-12390 *		US-PATENT-APPL-SN-680939	c 44	N78-10554 *	US-PATENT-APPL-SN-692331	c 10	N71-26326 *

US-PATENT-APPL-SN-692745	c 36	N87-17026 *	US-PATENT-APPL-SN-707440	c 06	N73-30102 *	US-PATENT-APPL-SN-720125	c 09	N71-12539 *
US-PATENT-APPL-SN-692801	c 37	N87-22977 *	US-PATENT-APPL-SN-707495	c 11	N71-18773 *	US-PATENT-APPL-SN-720133	c 27	N91-28423 *
US-PATENT-APPL-SN-692801	c 33	N92-16196 *	US-PATENT-APPL-SN-708255	c 24	N91-25202 *	US-PATENT-APPL-SN-720153	c 39	N92-11281 *
US-PATENT-APPL-SN-692802	c 37	N87-17034 *	US-PATENT-APPL-SN-708658	c 33	N77-26385 *	US-PATENT-APPL-SN-720204	c 09	N77-12314 *
US-PATENT-APPL-SN-692875	c 37	N86-20788 *	US-PATENT-APPL-SN-708660	c 34	N78-27357 *	US-PATENT-APPL-SN-720521	c 44	N78-25530 *
US-PATENT-APPL-SN-693074	c 44	N78-24609 *	US-PATENT-APPL-SN-708771	c 26	N78-24333 *	US-PATENT-APPL-SN-720546	c 18	N72-17532 *
US-PATENT-APPL-SN-693419	c 31	N71-16222 *	US-PATENT-APPL-SN-708795	c 37	N77-28487 *	US-PATENT-APPL-SN-721038	c 27	N91-28424 *
US-PATENT-APPL-SN-693420	c 31	N71-16080 *	US-PATENT-APPL-SN-708796	c 36	N78-18410 *	US-PATENT-APPL-SN-721039	c 09	N91-28175 *
US-PATENT-APPL-SN-694246	c 15	N71-26673 *	US-PATENT-APPL-SN-708800	c 54	N78-17676 *	US-PATENT-APPL-SN-721150	c 37	N78-17383 *
US-PATENT-APPL-SN-694247	c 09	N69-21927 *	US-PATENT-APPL-SN-708951	c 27	N78-31232 *	US-PATENT-APPL-SN-721607	c 18	N71-25881 *
US-PATENT-APPL-SN-694317	c 12	N71-20436 *	US-PATENT-APPL-SN-709255	c 37	N86-32738 *	US-PATENT-APPL-SN-722446	c 20	N91-32167 *
US-PATENT-APPL-SN-694340	c 11	N71-17600 *	US-PATENT-APPL-SN-709257	c 32	N87-14559 *	US-PATENT-APPL-SN-723264	c 24	N78-10214 *
US-PATENT-APPL-SN-694345	c 10	N71-23669 *	US-PATENT-APPL-SN-709398	c 06	N71-13461 *	US-PATENT-APPL-SN-723264	c 24	N78-17149 *
US-PATENT-APPL-SN-694406	c 35	N79-10389 *	US-PATENT-APPL-SN-709399	c 16	N71-26154 *	US-PATENT-APPL-SN-723465	c 15	N72-29488 *
US-PATENT-APPL-SN-694407	c 27	N80-23452 *	US-PATENT-APPL-SN-709415	c 44	N78-27515 *	US-PATENT-APPL-SN-723465	c 37	N74-15125 *
US-PATENT-APPL-SN-694855	c 33	N77-30365 *	US-PATENT-APPL-SN-709622	c 33	N71-24858 *	US-PATENT-APPL-SN-723476	c 05	N71-12341 *
US-PATENT-APPL-SN-69488	c 23	N75-14834 *	US-PATENT-APPL-SN-70967	c 07	N73-13149 *	US-PATENT-APPL-SN-723488	c 09	N71-28691 *
US-PATENT-APPL-SN-695513	c 07	N78-25089 *	US-PATENT-APPL-SN-70967	c 32	N74-10132 *	US-PATENT-APPL-SN-723804	c 09	N71-24806 *
US-PATENT-APPL-SN-695973	c 05	N71-12343 *	US-PATENT-APPL-SN-709849	c 52	N77-25772 *	US-PATENT-APPL-SN-723805	c 10	N71-26339 *
US-PATENT-APPL-SN-696374	c 44	N80-29835 *	US-PATENT-APPL-SN-709907	c 20	N91-26200 *	US-PATENT-APPL-SN-723827	c 10	N71-27137 *
US-PATENT-APPL-SN-696679	c 38	N79-14398 *	US-PATENT-APPL-SN-710032	c 54	N77-30749 *	US-PATENT-APPL-SN-724551	c 15	N71-17696 *
US-PATENT-APPL-SN-696989	c 27	N77-30237 *	US-PATENT-APPL-SN-710035	c 44	N78-24608 *	US-PATENT-APPL-SN-724874	c 76	N78-24950 *
US-PATENT-APPL-SN-697075	c 15	N71-27184 *	US-PATENT-APPL-SN-710036	c 44	N78-32539 *	US-PATENT-APPL-SN-725111	c 52	N91-29714 *
US-PATENT-APPL-SN-697341	c 09	N71-23188 *	US-PATENT-APPL-SN-710192	c 33	N91-26459 *	US-PATENT-APPL-SN-725405	c 15	N71-26134 *
US-PATENT-APPL-SN-698239	c 33	N78-17294 *	US-PATENT-APPL-SN-710193	c 35	N91-25388 *	US-PATENT-APPL-SN-725432	c 07	N71-24622 *
US-PATENT-APPL-SN-698279	c 37	N87-22976 *	US-PATENT-APPL-SN-710424	c 36	N91-32489 *	US-PATENT-APPL-SN-725475	c 31	N71-15643 *
US-PATENT-APPL-SN-698592	c 15	N71-18580 *	US-PATENT-APPL-SN-71047	c 09	N72-21247 *	US-PATENT-APPL-SN-725686	c 27	N87-15304 *
US-PATENT-APPL-SN-698629	c 09	N71-12516 *	US-PATENT-APPL-SN-71048	c 18	N73-12604 *	US-PATENT-APPL-SN-725689	c 37	N87-17037 *
US-PATENT-APPL-SN-698630	c 09	N71-24841 *	US-PATENT-APPL-SN-710533	c 02	N71-11043 *	US-PATENT-APPL-SN-725714	c 33	N89-14384 *
US-PATENT-APPL-SN-698641	c 74	N86-28732 *	US-PATENT-APPL-SN-710561	c 09	N71-12517 *	US-PATENT-APPL-SN-725719	c 15	N71-26243 *
US-PATENT-APPL-SN-698646	c 24	N78-15180 *	US-PATENT-APPL-SN-710562	c 31	N71-16085 *	US-PATENT-APPL-SN-725725	c 27	N87-16908 *
US-PATENT-APPL-SN-699002	c 32	N78-15323 *	US-PATENT-APPL-SN-710621	c 06	N73-27086 *	US-PATENT-APPL-SN-725727	c 27	N87-22845 *
US-PATENT-APPL-SN-699012	c 33	N78-27326 *	US-PATENT-APPL-SN-710633	c 37	N91-28581 *	US-PATENT-APPL-SN-726898	c 12	N71-17579 *
US-PATENT-APPL-SN-699130	c 27	N91-25298 *	US-PATENT-APPL-SN-710845	c 63	N91-28785 *	US-PATENT-APPL-SN-727034	c 35	N87-14669 *
US-PATENT-APPL-SN-699288	c 31	N91-28454 *	US-PATENT-APPL-SN-710945	c 33	N71-15568 *	US-PATENT-APPL-SN-727035	c 33	N86-32624 *
US-PATENT-APPL-SN-699289	c 36	N91-25392 *	US-PATENT-APPL-SN-710949	c 12	N71-17631 *	US-PATENT-APPL-SN-727444	c 31	N81-15154 *
US-PATENT-APPL-SN-699299	c 37	N91-32509 *	US-PATENT-APPL-SN-711898	c 18	N71-24934 *	US-PATENT-APPL-SN-727480	c 14	N71-17658 *
US-PATENT-APPL-SN-700040	c 18	N72-23581 *	US-PATENT-APPL-SN-711903	c 18	N71-26772 *	US-PATENT-APPL-SN-727503	c 08	N81-19130 *
US-PATENT-APPL-SN-700120	c 15	N71-20440 *	US-PATENT-APPL-SN-711921	c 18	N71-16105 *	US-PATENT-APPL-SN-727838	c 33	N86-20681 *
US-PATENT-APPL-SN-700142	c 21	N71-14159 *	US-PATENT-APPL-SN-711970	c 09	N71-18830 *	US-PATENT-APPL-SN-727931	c 33	N88-24862 *
US-PATENT-APPL-SN-700174	c 02	N71-20570 *	US-PATENT-APPL-SN-711971	c 09	N71-23598 *	US-PATENT-APPL-SN-728234	c 03	N71-12255 *
US-PATENT-APPL-SN-700255	c 33	N87-21234 *	US-PATENT-APPL-SN-711972	c 06	N71-24607 *	US-PATENT-APPL-SN-728369	c 52	N76-33835 *
US-PATENT-APPL-SN-700332	c 11	N73-12264 *	US-PATENT-APPL-SN-712065	c 08	N71-12503 *	US-PATENT-APPL-SN-728901	c 25	N92-19486 *
US-PATENT-APPL-SN-700379	c 74	N91-32924 *	US-PATENT-APPL-SN-712099	c 23	N71-24688 *	US-PATENT-APPL-SN-729107	c 75	N91-32947 *
US-PATENT-APPL-SN-700467	c 52	N79-14749 *	US-PATENT-APPL-SN-712270	c 52	N79-27836 *	US-PATENT-APPL-SN-729299	c 03	N72-15986 *
US-PATENT-APPL-SN-700541	c 10	N71-25139 *	US-PATENT-APPL-SN-712419	c 35	N78-14364 *	US-PATENT-APPL-SN-729704	c 37	N87-23983 *
US-PATENT-APPL-SN-700586	c 15	N71-19570 *	US-PATENT-APPL-SN-712658	c 07	N71-19773 *	US-PATENT-APPL-SN-729719	c 32	N87-25511 *
US-PATENT-APPL-SN-700673	c 39	N77-28511 *	US-PATENT-APPL-SN-712796	c 60	N91-32805 *	US-PATENT-APPL-SN-729766	c 09	N87-14355 *
US-PATENT-APPL-SN-700830	c 33	N92-10146 *	US-PATENT-APPL-SN-712981	c 31	N78-25256 *	US-PATENT-APPL-SN-729767	c 24	N87-27742 *
US-PATENT-APPL-SN-700984	c 11	N71-19494 *	US-PATENT-APPL-SN-713027	c 37	N79-10419 *	US-PATENT-APPL-SN-729768	c 72	N87-21660 *
US-PATENT-APPL-SN-700985	c 15	N69-23190 *	US-PATENT-APPL-SN-713162	c 06	N71-26754 *	US-PATENT-APPL-SN-730045	c 32	N78-24391 *
US-PATENT-APPL-SN-700986	c 12	N71-26387 *	US-PATENT-APPL-SN-713188	c 08	N71-33110 *	US-PATENT-APPL-SN-730046	c 35	N78-32396 *
US-PATENT-APPL-SN-700987	c 09	N71-19610 *	US-PATENT-APPL-SN-713449	c 74	N87-25843 *	US-PATENT-APPL-SN-730162	c 09	N71-18599 *
US-PATENT-APPL-SN-701144	c 05	N72-20096 *	US-PATENT-APPL-SN-713616	c 06	N71-27363 *	US-PATENT-APPL-SN-730468	c 25	N79-11152 *
US-PATENT-APPL-SN-701448	c 52	N78-10686 *	US-PATENT-APPL-SN-714051	c 33	N86-21742 *	US-PATENT-APPL-SN-730700	c 07	N71-24583 *
US-PATENT-APPL-SN-701486	c 31	N87-21159 *	US-PATENT-APPL-SN-714158	c 33	N78-13320 *	US-PATENT-APPL-SN-730701	c 12	N71-18615 *
US-PATENT-APPL-SN-701635	c 12	N71-17578 *	US-PATENT-APPL-SN-714296	c 14	N71-15604 *	US-PATENT-APPL-SN-730702	c 33	N71-16356 *
US-PATENT-APPL-SN-701654	c 03	N71-11049 *	US-PATENT-APPL-SN-714595	c 15	N71-17822 *	US-PATENT-APPL-SN-730703	c 10	N71-13537 *
US-PATENT-APPL-SN-701679	c 02	N71-19287 *	US-PATENT-APPL-SN-714814	c 37	N91-28582 *	US-PATENT-APPL-SN-730733	c 28	N71-16224 *
US-PATENT-APPL-SN-701679	c 07	N73-20174 *	US-PATENT-APPL-SN-715485	c 74	N78-14889 *	US-PATENT-APPL-SN-730734	c 15	N71-17654 *
US-PATENT-APPL-SN-701732	c 24	N71-16095 *	US-PATENT-APPL-SN-715975	c 06	N71-11240 *	US-PATENT-APPL-SN-730778	c 32	N79-10264 *
US-PATENT-APPL-SN-701733	c 10	N71-24844 *	US-PATENT-APPL-SN-716150	c 32	N92-10126 *	US-PATENT-APPL-SN-731388	c 15	N71-28435 *
US-PATENT-APPL-SN-701744	c 21	N71-13958 *	US-PATENT-APPL-SN-716182	c 53	N91-28730 *	US-PATENT-APPL-SN-731829	c 16	N91-28186 *
US-PATENT-APPL-SN-701767	c 07	N71-26101 *	US-PATENT-APPL-SN-716183	c 15	N71-18132 *	US-PATENT-APPL-SN-732321	c 33	N87-28832 *
US-PATENT-APPL-SN-702115	c 71	N79-14871 *	US-PATENT-APPL-SN-716734	c 15	N71-17628 *	US-PATENT-APPL-SN-732455	c 22	N71-28759 *
US-PATENT-APPL-SN-702396	c 31	N71-16345 *	US-PATENT-APPL-SN-716795	c 14	N71-20435 *	US-PATENT-APPL-SN-732630	c 36	N78-14380 *
US-PATENT-APPL-SN-702529	c 36	N91-28557 *	US-PATENT-APPL-SN-716885	c 74	N78-33913 *	US-PATENT-APPL-SN-732833	c 15	N72-28495 *
US-PATENT-APPL-SN-702911	c 15	N71-24875 *	US-PATENT-APPL-SN-717052	c 14	N71-17626 *	US-PATENT-APPL-SN-732917	c 14	N71-17575 *
US-PATENT-APPL-SN-702967	c 06	N71-24739 *	US-PATENT-APPL-SN-717319	c 44	N77-31601 *	US-PATENT-APPL-SN-732921	c 10	N71-26544 *
US-PATENT-APPL-SN-703107	c 37	N77-22479 *	US-PATENT-APPL-SN-717320	c 44	N78-15560 *	US-PATENT-APPL-SN-732922	c 17	N71-28747 *
US-PATENT-APPL-SN-703238	c 74	N92-11791 *	US-PATENT-APPL-SN-717447	c 76	N91-26968 *	US-PATENT-APPL-SN-733039	c 07	N72-12081 *
US-PATENT-APPL-SN-703649	c 34	N92-11286 *	US-PATENT-APPL-SN-717755	c 39	N92-12302 *	US-PATENT-APPL-SN-733039	c 09	N72-25247 *
US-PATENT-APPL-SN-703847	c 72	N86-33127 *	US-PATENT-APPL-SN-718022	c 09	N71-25866 *	US-PATENT-APPL-SN-73367	c 14	N71-15969 *
US-PATENT-APPL-SN-703905	c 32	N80-14281 *	US-PATENT-APPL-SN-718046	c 26	N91-28363 *	US-PATENT-APPL-SN-733825	c 31	N79-11246 *
US-PATENT-APPL-SN-704180	c 36	N78-27402 *	US-PATENT-APPL-SN-718095	c 28	N70-39899 *	US-PATENT-APPL-SN-73422	c 15	N72-25454 *
US-PATENT-APPL-SN-704224	c 18	N71-15469 *	US-PATENT-APPL-SN-718137	c 44	N78-31527 *	US-PATENT-APPL-SN-734366	c 27	N87-22847 *
US-PATENT-APPL-SN-704299	c 10	N71-26577 *	US-PATENT-APPL-SN-718244	c 05	N78-32086 *	US-PATENT-APPL-SN-734805	c 14	N70-34816 *
US-PATENT-APPL-SN-704420	c 05	N71-11202 *	US-PATENT-APPL-SN-718266	c 74	N78-17867 *	US-PATENT-APPL-SN-734901	c 27	N78-17205 *
US-PATENT-APPL-SN-704446	c 10	N71-33407 *	US-PATENT-APPL-SN-718267	c 26	N77-29260 *	US-PATENT-APPL-SN-734902	c 24	N78-14096 *
US-PATENT-APPL-SN-704465	c 07	N71-24741 *	US-PATENT-APPL-SN-718268	c 44	N78-33526 *	US-PATENT-APPL-SN-735149	c 37	N91-32511 *
US-PATENT-APPL-SN-704468	c 25	N79-28253 *	US-PATENT-APPL-SN-718279	c 15	N71-26312 *	US-PATENT-APPL-SN-735548	c 24	N91-28289 *
US-PATENT-APPL-SN-704668	c 10	N71-12554 *	US-PATENT-APPL-SN-718313	c 02	N91-28135 *	US-PATENT-APPL-SN-735911	c 14	N70-41946 *
US-PATENT-APPL-SN-705474	c 39	N92-11374 *	US-PATENT-APPL-SN-718314	c 76	N91-26967 *	US-PATENT-APPL-SN-736145	c 34	N92-10167 *
US-PATENT-APPL-SN-706013	c 33	N71-27862 *	US-PATENT-APPL-SN-718315	c 76	N91-26966 *	US-PATENT-APPL-SN-736286	c 32	N79-11265 *
US-PATENT-APPL-SN-706073	c 76	N79-11920 *	US-PATENT-APPL-SN-718689	c 14	N71-17655 *	US-PATENT-APPL-SN-736667	c 27	N92-12121 *
US-PATENT-APPL-SN-706424	c 27	N78-32256 *	US-PATENT-APPL-SN-718752	c 03	N71-18698 *	US-PATENT-APPL-SN-736848	c 23	N71-16212 *
US-PATENT-APPL-SN-706424	c 27	N80-10358 *	US-PATENT-APPL-SN-718769	c 14	N71-17662 *	US-PATENT-APPL-SN-736880	c 27	N92-11201 *
US-PATENT-APPL-SN-706424	c 27	N80-24438 *	US-PATENT-APPL-SN-718798	c 76	N91-15898 *	US-PATENT-APPL-SN-736909	c 37	N79-11404 *
US-PATENT-APPL-SN-706425	c 33	N78-10376 *	US-PATENT-APPL-SN-719029	c 14	N71-27186 *	US-PATENT-APPL-SN-736910	c 27	N78-32260 *
US-PATENT-APPL-SN-706564	c 14	N71-17587 *	US-PATENT-APPL-SN-719173	c 28	N70-33331 *	US-PATENT-APPL-SN-737018	c 37	N86-20801 *
US-PATENT-APPL-SN-706564	c 76	N87-15882 *	US-PATENT-APPL-SN-719794	c 35	N86-32695 *	US-PATENT-APPL-SN-737974	c 33	N78-18308 *
US-PATENT-APPL-SN-706565	c 76	N87-25862 *	US-PATENT-APPL-SN-719796	c 24	N86-21590 *	US-PATENT-APPL-SN-737975	c 32	N84-27952 *
US-PATENT-APPL-SN-706681	c 35	N86-32696 *	US-PATENT-APPL-SN-719799	c 35	N86-25752 *	US-PATENT-APPL-SN-738119	c 18	N71-15545 *
US-PATENT								

REPORT NUMBER INDEX

US-PATENT-APPL-SN-775968

US-PATENT-APPL-SN-738315	c 14	N72-31446 *	US-PATENT-APPL-SN-752729	c 09	N71-26787 *	US-PATENT-APPL-SN-764812	c 10	N71-19468 *
US-PATENT-APPL-SN-73834	c 15	N72-23497 *	US-PATENT-APPL-SN-752748	c 35	N78-25391 *	US-PATENT-APPL-SN-764812	c 76	N88-24543 *
US-PATENT-APPL-SN-738931	c 35	N86-20756 *	US-PATENT-APPL-SN-752946	c 15	N71-29032 *	US-PATENT-APPL-SN-764823	c 33	N78-17296 *
US-PATENT-APPL-SN-739072	c 33	N75-27251 *	US-PATENT-APPL-SN-752947	c 31	N71-15689 *	US-PATENT-APPL-SN-765123	c 31	N71-15687 *
US-PATENT-APPL-SN-73922	c 14	N73-25461 *	US-PATENT-APPL-SN-753103	c 37	N80-14397 *	US-PATENT-APPL-SN-765138	c 44	N79-10513 *
US-PATENT-APPL-SN-73932	c 15	N72-22485 *	US-PATENT-APPL-SN-753452	c 07	N79-14096 *	US-PATENT-APPL-SN-765139	c 44	N78-31526 *
US-PATENT-APPL-SN-739391	c 09	N72-17156 *	US-PATENT-APPL-SN-753964	c 24	N78-27180 *	US-PATENT-APPL-SN-765165	c 32	N79-11264 *
US-PATENT-APPL-SN-739760	c 27	N86-31726 *	US-PATENT-APPL-SN-753965	c 54	N78-31735 *	US-PATENT-APPL-SN-765167	c 32	N79-10263 *
US-PATENT-APPL-SN-739788	c 37	N88-14360 *	US-PATENT-APPL-SN-753965	c 54	N79-24651 *	US-PATENT-APPL-SN-765264	c 02	N71-29128 *
US-PATENT-APPL-SN-739789	c 34	N85-29182 *	US-PATENT-APPL-SN-753971	c 71	N84-14873 *	US-PATENT-APPL-SN-765273	c 54	N92-11639 *
US-PATENT-APPL-SN-739792	c 33	N87-28833 *	US-PATENT-APPL-SN-753974	c 16	N71-33410 *	US-PATENT-APPL-SN-765273	c 54	N92-21589 *
US-PATENT-APPL-SN-739908	c 15	N78-25119 *	US-PATENT-APPL-SN-753976	c 54	N78-17675 *	US-PATENT-APPL-SN-765615	c 52	N92-11628 *
US-PATENT-APPL-SN-739909	c 37	N78-24545 *	US-PATENT-APPL-SN-753977	c 74	N79-12890 *	US-PATENT-APPL-SN-765738	c 03	N71-11057 *
US-PATENT-APPL-SN-739914	c 33	N78-10375 *	US-PATENT-APPL-SN-753978	c 54	N78-32721 *	US-PATENT-APPL-SN-765978	c 37	N87-21334 *
US-PATENT-APPL-SN-739915	c 37	N78-24544 *	US-PATENT-APPL-SN-754019	c 09	N71-25999 *	US-PATENT-APPL-SN-765979	c 89	N86-22459 *
US-PATENT-APPL-SN-739927	c 32	N71-16103 *	US-PATENT-APPL-SN-754020	c 12	N71-27332 *	US-PATENT-APPL-SN-765980	c 27	N86-27451 *
US-PATENT-APPL-SN-740153	c 28	N79-11231 *	US-PATENT-APPL-SN-754055	c 07	N71-24624 *	US-PATENT-APPL-SN-765981	c 74	N87-28416 *
US-PATENT-APPL-SN-740155	c 74	N78-27904 *	US-PATENT-APPL-SN-754066	c 39	N78-15512 *	US-PATENT-APPL-SN-765991	c 35	N86-26598 *
US-PATENT-APPL-SN-740156	c 71	N78-14867 *	US-PATENT-APPL-SN-75431	c 21	N72-13637 *	US-PATENT-APPL-SN-766170	c 07	N71-24625 *
US-PATENT-APPL-SN-740457	c 35	N78-32395 *	US-PATENT-APPL-SN-754362	c 27	N87-21112 *	US-PATENT-APPL-SN-766244	c 15	N71-26721 *
US-PATENT-APPL-SN-740675	c 38	N91-32515 *	US-PATENT-APPL-SN-754707	c 33	N87-22895 *	US-PATENT-APPL-SN-766245	c 14	N71-27215 *
US-PATENT-APPL-SN-741056	c 07	N81-19116 *	US-PATENT-APPL-SN-755207	c 27	N92-10105 *	US-PATENT-APPL-SN-766591	c 27	N91-32229 *
US-PATENT-APPL-SN-741405	c 23	N86-21582 *	US-PATENT-APPL-SN-755288	c 34	N87-22950 *	US-PATENT-APPL-SN-766593	c 44	N92-10222 *
US-PATENT-APPL-SN-741461	c 12	N71-18603 *	US-PATENT-APPL-SN-755288	c 34	N88-23958 *	US-PATENT-APPL-SN-766597	c 31	N92-11219 *
US-PATENT-APPL-SN-741749	c 52	N79-14751 *	US-PATENT-APPL-SN-755310	c 25	N78-15210 *	US-PATENT-APPL-SN-766609	c 31	N92-11220 *
US-PATENT-APPL-SN-741824	c 07	N71-12389 *	US-PATENT-APPL-SN-755323	c 74	N79-11865 *	US-PATENT-APPL-SN-766697	c 09	N71-33519 *
US-PATENT-APPL-SN-742034	c 33	N78-10377 *	US-PATENT-APPL-SN-755960	c 31	N88-29052 *	US-PATENT-APPL-SN-7668	c 15	N71-26611 *
US-PATENT-APPL-SN-742816	c 14	N71-17656 *	US-PATENT-APPL-SN-756260	c 23	N71-26722 *	US-PATENT-APPL-SN-766999	c 33	N80-23559 *
US-PATENT-APPL-SN-743238	c 02	N92-10008 *	US-PATENT-APPL-SN-756266	c 15	N71-26145 *	US-PATENT-APPL-SN-7669	c 31	N78-18859 *
US-PATENT-APPL-SN-743249	c 35	N77-32456 *	US-PATENT-APPL-SN-756381	c 06	N71-25929 *	US-PATENT-APPL-SN-767741	c 09	N72-27228 *
US-PATENT-APPL-SN-743429	c 07	N71-11285 *	US-PATENT-APPL-SN-756511	c 09	N71-27016 *	US-PATENT-APPL-SN-767911	c 09	N78-31129 *
US-PATENT-APPL-SN-743468	c 09	N91-32149 *	US-PATENT-APPL-SN-756834	c 15	N72-21466 *	US-PATENT-APPL-SN-767912	c 27	N79-14214 *
US-PATENT-APPL-SN-743469	c 16	N92-10035 *	US-PATENT-APPL-SN-757017	c 35	N77-21393 *	US-PATENT-APPL-SN-768336	c 15	N71-17648 *
US-PATENT-APPL-SN-743489	c 37	N92-11354 *	US-PATENT-APPL-SN-757625	c 09	N71-26701 *	US-PATENT-APPL-SN-768470	c 09	N71-28421 *
US-PATENT-APPL-SN-743525	c 07	N71-28430 *	US-PATENT-APPL-SN-757857	c 10	N71-25900 *	US-PATENT-APPL-SN-768473	c 14	N71-17657 *
US-PATENT-APPL-SN-744042	c 60	N92-17884 *	US-PATENT-APPL-SN-757861	c 05	N71-11194 *	US-PATENT-APPL-SN-768662	c 07	N73-25160 *
US-PATENT-APPL-SN-744118	c 37	N91-32510 *	US-PATENT-APPL-SN-757875	c 09	N71-24805 *	US-PATENT-APPL-SN-768795	c 33	N79-10339 *
US-PATENT-APPL-SN-744197	c 74	N91-32926 *	US-PATENT-APPL-SN-758082	c 15	N71-17805 *	US-PATENT-APPL-SN-768892	c 46	N74-23068 *
US-PATENT-APPL-SN-744477	c 33	N78-25319 *	US-PATENT-APPL-SN-758390	c 28	N71-26642 *	US-PATENT-APPL-SN-76899	c 09	N72-22201 *
US-PATENT-APPL-SN-744522	c 33	N77-21314 *	US-PATENT-APPL-SN-758540	c 28	N73-27699 *	US-PATENT-APPL-SN-769148	c 52	N79-10724 *
US-PATENT-APPL-SN-744573	c 44	N78-25531 *	US-PATENT-APPL-SN-758721	c 52	N79-16580 *	US-PATENT-APPL-SN-769149	c 33	N78-32339 *
US-PATENT-APPL-SN-744574	c 25	N78-14104 *	US-PATENT-APPL-SN-758942	c 27	N71-14090 *	US-PATENT-APPL-SN-769592	c 15	N72-16330 *
US-PATENT-APPL-SN-744577	c 35	N79-10391 *	US-PATENT-APPL-SN-759220	c 27	N78-17214 *	US-PATENT-APPL-SN-769665	c 15	N72-11387 *
US-PATENT-APPL-SN-744910	c 15	N71-17649 *	US-PATENT-APPL-SN-759256	c 07	N71-27233 *	US-PATENT-APPL-SN-769788	c 07	N71-11300 *
US-PATENT-APPL-SN-745337	c 28	N72-20758 *	US-PATENT-APPL-SN-759367	c 37	N92-11359 *	US-PATENT-APPL-SN-770203	c 05	N71-11195 *
US-PATENT-APPL-SN-745384	c 25	N79-11151 *	US-PATENT-APPL-SN-759457	c 33	N71-16357 *	US-PATENT-APPL-SN-770209	c 08	N71-27057 *
US-PATENT-APPL-SN-745766	c 37	N79-11403 *	US-PATENT-APPL-SN-759460	c 09	N71-24597 *	US-PATENT-APPL-SN-770371	c 15	N71-24599 *
US-PATENT-APPL-SN-745852	c 12	N71-17661 *	US-PATENT-APPL-SN-759665	c 14	N71-18481 *	US-PATENT-APPL-SN-770398	c 06	N71-27254 *
US-PATENT-APPL-SN-745973	c 36	N86-29204 *	US-PATENT-APPL-SN-759965	c 52	N79-26771 *	US-PATENT-APPL-SN-770398	c 06	N72-27144 *
US-PATENT-APPL-SN-745977	c 35	N87-14671 *	US-PATENT-APPL-SN-760057	c 44	N79-14527 *	US-PATENT-APPL-SN-770417	c 06	N73-33076 *
US-PATENT-APPL-SN-746160	c 37	N86-20797 *	US-PATENT-APPL-SN-760114	c 28	N72-17109 *	US-PATENT-APPL-SN-770425	c 06	N72-20121 *
US-PATENT-APPL-SN-746269	c 44	N78-25528 *	US-PATENT-APPL-SN-760374	c 27	N87-16909 *	US-PATENT-APPL-SN-770869	c 44	N78-25527 *
US-PATENT-APPL-SN-746578	c 12	N79-26075 *	US-PATENT-APPL-SN-760374	c 23	N88-24692 *	US-PATENT-APPL-SN-770920	c 37	N86-32736 *
US-PATENT-APPL-SN-746579	c 33	N81-27397 *	US-PATENT-APPL-SN-760378	c 37	N86-32737 *	US-PATENT-APPL-SN-771216	c 14	N72-17329 *
US-PATENT-APPL-SN-746580	c 34	N78-17335 *	US-PATENT-APPL-SN-760389	c 09	N71-24618 *	US-PATENT-APPL-SN-771245	c 27	N81-14076 *
US-PATENT-APPL-SN-746581	c 25	N92-12079 *	US-PATENT-APPL-SN-760633	c 52	N92-11627 *	US-PATENT-APPL-SN-771523	c 10	N71-18772 *
US-PATENT-APPL-SN-746809	c 35	N87-22953 *	US-PATENT-APPL-SN-760670	c 27	N92-11186 *	US-PATENT-APPL-SN-771530	c 09	N72-12136 *
US-PATENT-APPL-SN-747059	c 74	N91-32925 *	US-PATENT-APPL-SN-760771	c 44	N79-14528 *	US-PATENT-APPL-SN-771537	c 37	N87-23981 *
US-PATENT-APPL-SN-747152	c 35	N92-11336 *	US-PATENT-APPL-SN-760790	c 36	N87-28006 *	US-PATENT-APPL-SN-771537	c 35	N91-21494 *
US-PATENT-APPL-SN-74759	c 14	N73-20478 *	US-PATENT-APPL-SN-760791	c 27	N87-14515 *	US-PATENT-APPL-SN-771538	c 24	N86-25416 *
US-PATENT-APPL-SN-747674	c 27	N80-26446 *	US-PATENT-APPL-SN-760797	c 27	N87-16907 *	US-PATENT-APPL-SN-77169	c 14	N72-21408 *
US-PATENT-APPL-SN-747675	c 37	N78-31426 *	US-PATENT-APPL-SN-760799	c 54	N87-29118 *	US-PATENT-APPL-SN-771759	c 09	N71-29008 *
US-PATENT-APPL-SN-748224	c 34	N92-17909 *	US-PATENT-APPL-SN-760809	c 24	N78-24290 *	US-PATENT-APPL-SN-771760	c 10	N71-25917 *
US-PATENT-APPL-SN-748225	c 34	N92-17888 *	US-PATENT-APPL-SN-760810	c 26	N78-32229 *	US-PATENT-APPL-SN-771803	c 07	N71-12391 *
US-PATENT-APPL-SN-748536	c 33	N86-20680 *	US-PATENT-APPL-SN-760819	c 14	N70-34820 *	US-PATENT-APPL-SN-771937	c 10	N71-24862 *
US-PATENT-APPL-SN-74861	c 27	N72-25699 *	US-PATENT-APPL-SN-760927	c 26	N71-25490 *	US-PATENT-APPL-SN-772006	c 17	N71-33408 *
US-PATENT-APPL-SN-74862	c 27	N73-16764 *	US-PATENT-APPL-SN-760928	c 15	N71-28582 *	US-PATENT-APPL-SN-772165	c 74	N79-13855 *
US-PATENT-APPL-SN-748933	c 25	N91-23271 *	US-PATENT-APPL-SN-761007	c 18	N71-26155 *	US-PATENT-APPL-SN-772167	c 25	N79-22235 *
US-PATENT-APPL-SN-749121	c 07	N72-11149 *	US-PATENT-APPL-SN-761235	c 27	N86-32569 *	US-PATENT-APPL-SN-772168	c 37	N79-20377 *
US-PATENT-APPL-SN-749148	c 10	N71-19421 *	US-PATENT-APPL-SN-761252	c 27	N80-32515 *	US-PATENT-APPL-SN-772181	c 27	N91-32230 *
US-PATENT-APPL-SN-749149	c 15	N71-24897 *	US-PATENT-APPL-SN-761310	c 25	N88-23846 *	US-PATENT-APPL-SN-772201	c 14	N72-27409 *
US-PATENT-APPL-SN-749181	c 09	N71-24803 *	US-PATENT-APPL-SN-761404	c 09	N71-12526 *	US-PATENT-APPL-SN-772221	c 08	N72-25210 *
US-PATENT-APPL-SN-749320	c 14	N72-22443 *	US-PATENT-APPL-SN-761566	c 61	N92-10331 *	US-PATENT-APPL-SN-772434	c 52	N80-14687 *
US-PATENT-APPL-SN-749420	c 04	N82-16059 *	US-PATENT-APPL-SN-762362	c 44	N79-24433 *	US-PATENT-APPL-SN-77251	c 25	N70-41628 *
US-PATENT-APPL-SN-749548	c 10	N71-33129 *	US-PATENT-APPL-SN-762363	c 44	N79-24432 *	US-PATENT-APPL-SN-77252	c 02	N70-37939 *
US-PATENT-APPL-SN-749737	c 35	N92-10182 *	US-PATENT-APPL-SN-762438	c 12	N71-17569 *	US-PATENT-APPL-SN-77256	c 15	N70-33323 *
US-PATENT-APPL-SN-749819	c 61	N92-17860 *	US-PATENT-APPL-SN-762935	c 14	N71-29041 *	US-PATENT-APPL-SN-772763	c 31	N92-17913 *
US-PATENT-APPL-SN-750031	c 05	N73-32012 *	US-PATENT-APPL-SN-762936	c 31	N69-27499 *	US-PATENT-APPL-SN-773029	c 09	N71-24893 *
US-PATENT-APPL-SN-750158	c 27	N92-11200 *	US-PATENT-APPL-SN-762956	c 14	N71-26627 *	US-PATENT-APPL-SN-773072	c 10	N72-28241 *
US-PATENT-APPL-SN-750235	c 25	N75-14844 *	US-PATENT-APPL-SN-762957	c 08	N71-27210 *	US-PATENT-APPL-SN-773376	c 33	N92-12174 *
US-PATENT-APPL-SN-750655	c 74	N78-32854 *	US-PATENT-APPL-SN-763040	c 14	N72-28438 *	US-PATENT-APPL-SN-773530	c 25	N75-29192 *
US-PATENT-APPL-SN-750786	c 07	N71-27341 *	US-PATENT-APPL-SN-763355	c 06	N71-28620 *	US-PATENT-APPL-SN-774151	c 15	N71-17692 *
US-PATENT-APPL-SN-750787	c 10	N71-27126 *	US-PATENT-APPL-SN-763684	c 15	N72-16329 *	US-PATENT-APPL-SN-774265	c 10	N71-27365 *
US-PATENT-APPL-SN-750792	c 37	N79-11402 *	US-PATENT-APPL-SN-763685	c 15	N71-24910 *	US-PATENT-APPL-SN-774266	c 15	N71-26185 *
US-PATENT-APPL-SN-750798	c 85	N79-17747 *	US-PATENT-APPL-SN-763705	c 09	N71-18720 *	US-PATENT-APPL-SN-774384	c 32	N79-10262 *
US-PATENT-APPL-SN-751061	c 18	N71-29040 *	US-PATENT-APPL-SN-763706	c 15	N71-24896 *	US-PATENT-APPL-SN-774691	c 10	N72-31273 *
US-PATENT-APPL-SN-751198	c 03	N71-24718 *	US-PATENT-APPL-SN-763729	c 12	N71-26546 *	US-PATENT-APPL-SN-774733	c 14	N72-24477 *
US-PATENT-APPL-SN-751215	c 22	N72-20597 *	US-PATENT-APPL-SN-763743	c 14	N72-21409 *	US-PATENT-APPL-SN-775072	c 16	N71-24831 *
US-PATENT-APPL-SN-751266	c 15	N71-33518 *	US-PATENT-APPL-SN-763744	c 10	N72-27246 *	US-PATENT-APPL-SN-775239	c 37	N79-14382 *
US-PATENT-APPL-SN-751440	c 36	N92-17899 *	US-PATENT-APPL-SN-763753	c 43	N78-14452 *	US-PATENT-APPL-SN-775404	c 54	N92-17910 *
US-PATENT-APPL-SN-751489	c 38	N92-17859 *	US-PATENT-APPL-SN-763868	c 15	N71-24679 *	US-PATENT-APPL-SN-775548	c 33	N87-21233 *
US-PATENT-APPL-SN-751644	c 85	N87-21755 *	US-PATENT-APPL-SN-763869	c 17	N71-16393 *	US-PATENT-APPL-SN-775870	c 09	N71-24800 *
US-PATENT-APPL-SN-751691	c 37	N87-21332 *	US-PATENT-APPL-SN-764245	c 24	N80-33482 *	US-PATENT-APPL-SN-775870	c 09	N72-2196 *
US-PATENT-APPL-SN-7516								

US-PATENT-APPL-SN-775989	c 71	N87-21653 *	US-PATENT-APPL-SN-789266	c 71	N88-24241 *	US-PATENT-APPL-SN-804172	c 28	N71-26781 *
US-PATENT-APPL-SN-775990	c 17	N87-25348 *	US-PATENT-APPL-SN-789278	c 15	N71-24694 *	US-PATENT-APPL-SN-804196	c 33	N87-28831 *
US-PATENT-APPL-SN-776029	c 07	N79-10057 *	US-PATENT-APPL-SN-789903	c 07	N71-28429 *	US-PATENT-APPL-SN-805010	c 35	N87-23944 *
US-PATENT-APPL-SN-776146	c 44	N79-17313 *	US-PATENT-APPL-SN-790420	c 09	N71-24595 *	US-PATENT-APPL-SN-805011	c 54	N88-24163 *
US-PATENT-APPL-SN-776146	c 25	N82-21268 *	US-PATENT-APPL-SN-790556	c 08	N87-20999 *	US-PATENT-APPL-SN-805012	c 27	N87-21111 *
US-PATENT-APPL-SN-776185	c 03	N72-22041 *	US-PATENT-APPL-SN-790594	c 36	N87-23961 *	US-PATENT-APPL-SN-805298	c 10	N71-25899 *
US-PATENT-APPL-SN-777764	c 15	N71-27214 *	US-PATENT-APPL-SN-790596	c 35	N88-24927 *	US-PATENT-APPL-SN-805405	c 14	N71-27323 *
US-PATENT-APPL-SN-777765	c 15	N71-29018 *	US-PATENT-APPL-SN-790597	c 37	N88-14359 *	US-PATENT-APPL-SN-805406	c 07	N71-24613 *
US-PATENT-APPL-SN-777765	c 14	N73-28487 *	US-PATENT-APPL-SN-790637	c 44	N78-25529 *	US-PATENT-APPL-SN-805549	c 35	N79-16246 *
US-PATENT-APPL-SN-777766	c 31	N71-16221 *	US-PATENT-APPL-SN-791267	c 23	N72-17747 *	US-PATENT-APPL-SN-806149	c 27	N71-16223 *
US-PATENT-APPL-SN-777818	c 09	N71-27364 *	US-PATENT-APPL-SN-791268	c 33	N72-17947 *	US-PATENT-APPL-SN-806226	c 14	N71-27407 *
US-PATENT-APPL-SN-777786	c 14	N72-27412 *	US-PATENT-APPL-SN-791288	c 28	N71-25213 *	US-PATENT-APPL-SN-806440	c 51	N79-10694 *
US-PATENT-APPL-SN-777983	c 32	N79-24210 *	US-PATENT-APPL-SN-791364	c 14	N72-17328 *	US-PATENT-APPL-SN-806572	c 27	N87-25469 *
US-PATENT-APPL-SN-778195	c 24	N79-16915 *	US-PATENT-APPL-SN-791693	c 05	N71-11203 *	US-PATENT-APPL-SN-807597	c 52	N80-16725 *
US-PATENT-APPL-SN-77869	c 37	N79-21345 *	US-PATENT-APPL-SN-791728	c 37	N92-17677 *	US-PATENT-APPL-SN-807703	c 37	N78-27424 *
US-PATENT-APPL-SN-779024	c 10	N71-27271 *	US-PATENT-APPL-SN-791759	c 33	N92-17907 *	US-PATENT-APPL-SN-807762	c 27	N78-31233 *
US-PATENT-APPL-SN-779025	c 09	N72-23171 *	US-PATENT-APPL-SN-791888	c 23	N71-24725 *	US-PATENT-APPL-SN-808192	c 15	N71-27432 *
US-PATENT-APPL-SN-779160	c 14	N72-16282 *	US-PATENT-APPL-SN-792067	c 24	N78-17150 *	US-PATENT-APPL-SN-808193	c 31	N71-26537 *
US-PATENT-APPL-SN-779169	c 09	N71-28618 *	US-PATENT-APPL-SN-792068	c 51	N79-10693 *	US-PATENT-APPL-SN-808462	c 10	N71-27136 *
US-PATENT-APPL-SN-779415	c 60	N79-20751 *	US-PATENT-APPL-SN-792069	c 37	N79-10418 *	US-PATENT-APPL-SN-808510	c 33	N78-32338 *
US-PATENT-APPL-SN-779428	c 34	N78-25351 *	US-PATENT-APPL-SN-792623	c 14	N72-23457 *	US-PATENT-APPL-SN-808576	c 15	N71-27754 *
US-PATENT-APPL-SN-779429	c 08	N79-14108 *	US-PATENT-APPL-SN-793006	c 52	N86-19885 *	US-PATENT-APPL-SN-808577	c 32	N71-25360 *
US-PATENT-APPL-SN-779744	c 74	N87-23259 *	US-PATENT-APPL-SN-793657	c 17	N72-28536 *	US-PATENT-APPL-SN-808822	c 14	N73-16483 *
US-PATENT-APPL-SN-779847	c 15	N71-27091 *	US-PATENT-APPL-SN-793770	c 25	N71-15562 *	US-PATENT-APPL-SN-809822	c 28	N71-27585 *
US-PATENT-APPL-SN-779871	c 33	N79-20314 *	US-PATENT-APPL-SN-793771	c 14	N72-22440 *	US-PATENT-APPL-SN-809851	c 33	N87-23904 *
US-PATENT-APPL-SN-779883	c 27	N79-18052 *	US-PATENT-APPL-SN-793772	c 10	N71-18722 *	US-PATENT-APPL-SN-809890	c 44	N79-17314 *
US-PATENT-APPL-SN-780064	c 15	N71-27372 *	US-PATENT-APPL-SN-793823	c 09	N71-33109 *	US-PATENT-APPL-SN-809890	c 44	N80-14474 *
US-PATENT-APPL-SN-780065	c 12	N71-28741 *	US-PATENT-APPL-SN-794530	c 15	N72-11386 *	US-PATENT-APPL-SN-809975	c 44	N87-17399 *
US-PATENT-APPL-SN-780512	c 37	N92-17872 *	US-PATENT-APPL-SN-794968	c 15	N71-27146 *	US-PATENT-APPL-SN-810575	c 15	N71-27169 *
US-PATENT-APPL-SN-780513	c 74	N92-17863 *	US-PATENT-APPL-SN-795182	c 07	N71-24840 *	US-PATENT-APPL-SN-810576	c 15	N73-12492 *
US-PATENT-APPL-SN-780569	c 54	N78-31736 *	US-PATENT-APPL-SN-795217	c 33	N71-25351 *	US-PATENT-APPL-SN-810576	c 25	N82-21269 *
US-PATENT-APPL-SN-78065	c 08	N72-22162 *	US-PATENT-APPL-SN-795805	c 08	N88-23808 *	US-PATENT-APPL-SN-810579	c 09	N72-22203 *
US-PATENT-APPL-SN-780728	c 32	N78-31321 *	US-PATENT-APPL-SN-795945	c 37	N87-25573 *	US-PATENT-APPL-SN-810579	c 33	N74-22864 *
US-PATENT-APPL-SN-780729	c 33	N79-22373 *	US-PATENT-APPL-SN-796053	c 37	N87-22985 *	US-PATENT-APPL-SN-810815	c 06	N72-22107 *
US-PATENT-APPL-SN-780873	c 32	N81-27341 *	US-PATENT-APPL-SN-796256	c 52	N80-18691 *	US-PATENT-APPL-SN-81095	c 13	N72-25323 *
US-PATENT-APPL-SN-780874	c 35	N78-28411 *	US-PATENT-APPL-SN-796258	c 52	N82-22875 *	US-PATENT-APPL-SN-81096	c 14	N73-14427 *
US-PATENT-APPL-SN-780938	c 54	N80-10799 *	US-PATENT-APPL-SN-796263	c 27	N79-28307 *	US-PATENT-APPL-SN-811037	c 14	N71-26137 *
US-PATENT-APPL-SN-781520	c 31	N92-17674 *	US-PATENT-APPL-SN-796358	c 05	N72-11085 *	US-PATENT-APPL-SN-811038	c 14	N72-20380 *
US-PATENT-APPL-SN-781521	c 33	N92-17865 *	US-PATENT-APPL-SN-796360	c 15	N71-24696 *	US-PATENT-APPL-SN-811309	c 76	N90-20896 *
US-PATENT-APPL-SN-781812	c 36	N87-23960 *	US-PATENT-APPL-SN-796370	c 10	N71-27366 *	US-PATENT-APPL-SN-811401	c 31	N81-25258 *
US-PATENT-APPL-SN-781813	c 27	N87-14516 *	US-PATENT-APPL-SN-796405	c 14	N71-27185 *	US-PATENT-APPL-SN-811509	c 02	N70-33332 *
US-PATENT-APPL-SN-782009	c 36	N92-17862 *	US-PATENT-APPL-SN-796685	c 26	N72-28762 *	US-PATENT-APPL-SN-811542	c 21	N71-24948 *
US-PATENT-APPL-SN-782462	c 33	N79-17133 *	US-PATENT-APPL-SN-796690	c 07	N72-21119 *	US-PATENT-APPL-SN-811815	c 44	N78-31525 *
US-PATENT-APPL-SN-782463	c 72	N79-13826 *	US-PATENT-APPL-SN-796691	c 10	N71-26334 *	US-PATENT-APPL-SN-811892	c 14	N71-27090 *
US-PATENT-APPL-SN-782464	c 32	N79-14267 *	US-PATENT-APPL-SN-797056	c 15	N71-25975 *	US-PATENT-APPL-SN-812084	c 24	N92-17870 *
US-PATENT-APPL-SN-782480	c 33	N78-32340 *	US-PATENT-APPL-SN-797057	c 15	N70-22192 *	US-PATENT-APPL-SN-812447	c 71	N79-20827 *
US-PATENT-APPL-SN-782481	c 44	N78-32542 *	US-PATENT-APPL-SN-797058	c 05	N71-24738 *	US-PATENT-APPL-SN-812901	c 74	N92-17864 *
US-PATENT-APPL-SN-782482	c 33	N79-11315 *	US-PATENT-APPL-SN-797059	c 15	N71-28465 *	US-PATENT-APPL-SN-812998	c 28	N72-22769 *
US-PATENT-APPL-SN-782544	c 14	N71-27325 *	US-PATENT-APPL-SN-797210	c 28	N78-31255 *	US-PATENT-APPL-SN-812999	c 05	N71-12345 *
US-PATENT-APPL-SN-782693	c 33	N79-10337 *	US-PATENT-APPL-SN-797219	c 03	N71-33409 *	US-PATENT-APPL-SN-813338	c 18	N72-22566 *
US-PATENT-APPL-SN-782955	c 07	N71-33108 *	US-PATENT-APPL-SN-797484	c 25	N92-17902 *	US-PATENT-APPL-SN-813488	c 15	N71-28467 *
US-PATENT-APPL-SN-782956	c 10	N71-25865 *	US-PATENT-APPL-SN-797569	c 74	N92-17675 *	US-PATENT-APPL-SN-813494	c 08	N72-11171 *
US-PATENT-APPL-SN-783374	c 15	N71-27147 *	US-PATENT-APPL-SN-797794	c 07	N71-12396 *	US-PATENT-APPL-SN-813628	c 37	N92-17584 *
US-PATENT-APPL-SN-783375	c 07	N71-24621 *	US-PATENT-APPL-SN-797795	c 07	N71-27191 *	US-PATENT-APPL-SN-813629	c 54	N92-17866 *
US-PATENT-APPL-SN-783377	c 05	N71-28619 *	US-PATENT-APPL-SN-797796	c 28	N71-14058 *	US-PATENT-APPL-SN-814004	c 33	N79-18193 *
US-PATENT-APPL-SN-783378	c 07	N71-19436 *	US-PATENT-APPL-SN-798277	c 23	N71-26654 *	US-PATENT-APPL-SN-814005	c 76	N79-14906 *
US-PATENT-APPL-SN-783379	c 15	N71-17653 *	US-PATENT-APPL-SN-798464	c 24	N92-17861 *	US-PATENT-APPL-SN-814006	c 37	N79-22475 *
US-PATENT-APPL-SN-783386	c 37	N87-17035 *	US-PATENT-APPL-SN-798713	c 28	N91-14495 *	US-PATENT-APPL-SN-814212	c 14	N72-17326 *
US-PATENT-APPL-SN-783387	c 36	N87-25567 *	US-PATENT-APPL-SN-798976	c 52	N81-25661 *	US-PATENT-APPL-SN-814378	c 25	N79-10162 *
US-PATENT-APPL-SN-783388	c 37	N87-25582 *	US-PATENT-APPL-SN-799013	c 09	N71-28468 *	US-PATENT-APPL-SN-815099	c 60	N86-24224 *
US-PATENT-APPL-SN-783390	c 74	N87-17493 *	US-PATENT-APPL-SN-799023	c 37	N79-10421 *	US-PATENT-APPL-SN-815103	c 60	N89-26400 *
US-PATENT-APPL-SN-783390	c 74	N87-25843 *	US-PATENT-APPL-SN-799024	c 24	N78-17149 *	US-PATENT-APPL-SN-815106	c 60	N88-24169 *
US-PATENT-APPL-SN-784055	c 15	N72-11390 *	US-PATENT-APPL-SN-799025	c 32	N80-29539 *	US-PATENT-APPL-SN-815366	c 14	N71-28994 *
US-PATENT-APPL-SN-784521	c 14	N71-15620 *	US-PATENT-APPL-SN-799026	c 44	N79-11468 *	US-PATENT-APPL-SN-815367	c 14	N71-28863 *
US-PATENT-APPL-SN-784544	c 15	N72-12408 *	US-PATENT-APPL-SN-799353	c 09	N71-27232 *	US-PATENT-APPL-SN-815760	c 15	N71-27068 *
US-PATENT-APPL-SN-785078	c 03	N72-27053 *	US-PATENT-APPL-SN-799832	c 33	N79-15245 *	US-PATENT-APPL-SN-816733	c 15	N71-27084 *
US-PATENT-APPL-SN-785257	c 44	N79-14526 *	US-PATENT-APPL-SN-800193	c 37	N87-17038 *	US-PATENT-APPL-SN-816988	c 14	N71-26199 *
US-PATENT-APPL-SN-785279	c 27	N81-14077 *	US-PATENT-APPL-SN-800194	c 76	N88-14835 *	US-PATENT-APPL-SN-817413	c 33	N79-12321 *
US-PATENT-APPL-SN-785544	c 10	N71-25882 *	US-PATENT-APPL-SN-800204	c 06	N72-17094 *	US-PATENT-APPL-SN-817415	c 74	N79-20857 *
US-PATENT-APPL-SN-785595	c 10	N71-24861 *	US-PATENT-APPL-SN-800209	c 14	N73-32320 *	US-PATENT-APPL-SN-817481	c 09	N72-11225 *
US-PATENT-APPL-SN-785611	c 15	N71-24600 *	US-PATENT-APPL-SN-800209	c 74	N74-20008 *	US-PATENT-APPL-SN-817482	c 10	N71-27338 *
US-PATENT-APPL-SN-785613	c 05	N72-25119 *	US-PATENT-APPL-SN-800973	c 16	N71-24832 *	US-PATENT-APPL-SN-817569	c 06	N69-31244 *
US-PATENT-APPL-SN-785615	c 05	N72-20098 *	US-PATENT-APPL-SN-801290	c 37	N79-18318 *	US-PATENT-APPL-SN-818349	c 21	N71-19212 *
US-PATENT-APPL-SN-785620	c 21	N71-27324 *	US-PATENT-APPL-SN-801290	c 37	N80-26658 *	US-PATENT-APPL-SN-818916	c 05	N79-17847 *
US-PATENT-APPL-SN-785710	c 05	N71-24730 *	US-PATENT-APPL-SN-801290	c 37	N82-19540 *	US-PATENT-APPL-SN-818917	c 32	N79-13214 *
US-PATENT-APPL-SN-785780	c 18	N71-28729 *	US-PATENT-APPL-SN-801312	c 16	N71-15565 *	US-PATENT-APPL-SN-819029	c 20	N82-18314 *
US-PATENT-APPL-SN-786322	c 32	N79-20296 *	US-PATENT-APPL-SN-801336	c 02	N71-13422 *	US-PATENT-APPL-SN-819599	c 15	N71-19214 *
US-PATENT-APPL-SN-786499	c 63	N92-17895 *	US-PATENT-APPL-SN-801432	c 33	N78-32341 *	US-PATENT-APPL-SN-819898	c 30	N72-17873 *
US-PATENT-APPL-SN-786618	c 74	N92-17892 *	US-PATENT-APPL-SN-801452	c 44	N79-11471 *	US-PATENT-APPL-SN-8203	c 15	N70-33180 *
US-PATENT-APPL-SN-7867	c 14	N72-17324 *	US-PATENT-APPL-SN-801660	c 14	N71-26672 *	US-PATENT-APPL-SN-820453	c 03	N72-24037 *
US-PATENT-APPL-SN-7868	c 10	N72-17173 *	US-PATENT-APPL-SN-802769	c 76	N86-25269 *	US-PATENT-APPL-SN-820498	c 89	N79-10969 *
US-PATENT-APPL-SN-786913	c 27	N79-12221 *	US-PATENT-APPL-SN-802812	c 10	N72-22235 *	US-PATENT-APPL-SN-820499	c 76	N79-23798 *
US-PATENT-APPL-SN-78703	c 15	N73-20514 *	US-PATENT-APPL-SN-802813	c 15	N72-22487 *	US-PATENT-APPL-SN-8204	c 31	N70-37981 *
US-PATENT-APPL-SN-78704	c 05	N72-25121 *	US-PATENT-APPL-SN-802816	c 31	N71-16346 *	US-PATENT-APPL-SN-820963	c 07	N71-19854 *
US-PATENT-APPL-SN-78717	c 05	N73-13114 *	US-PATENT-APPL-SN-802818	c 07	N71-29065 *	US-PATENT-APPL-SN-820964	c 15	N71-28740 *
US-PATENT-APPL-SN-787393	c 23	N71-26206 *	US-PATENT-APPL-SN-802820	c 10	N71-13545 *	US-PATENT-APPL-SN-820965	c 09	N71-13486 *
US-PATENT-APPL-SN-787410	c 15	N71-19213 *	US-PATENT-APPL-SN-802948	c 31	N71-33160 *	US-PATENT-APPL-SN-821586	c 26	N71-14354 *
US-PATENT-APPL-SN-78766	c 05	N74-10907 *	US-PATENT-APPL-SN-802972	c 09	N71-26678 *	US-PATENT-APPL-SN-821681	c 35	N78-27384 *
US-PATENT-APPL-SN-787846	c 23	N71-33229 *	US-PATENT-APPL-SN-80368	c 09	N73-20231 *	US-PATENT-APPL-SN-822039	c 06	N72-25149 *
US-PATENT-APPL-SN-787906	c 03	N71-26084 *	US-PATENT-APPL-SN-80369	c 09	N72-22198 *	US-PATENT-APPL-SN-822088	c 15	N71-27135 *
US-PATENT-APPL-SN-787911	c 03	N71-28579 *	US-PATENT-APPL-SN-803822	c 26	N79-22271 *	US-PATENT-APPL-SN-822089	c 23	N72-23695 *
US-PATENT-APPL-SN-788045	c 24	N79-25142 *	US-PATENT-APPL-SN-803822	c 26	N80-32484 *	US-PATENT-APPL-SN-822090	c 16	N71-27183 *
US-PATENT-APPL-SN-788705	c 35	N78-24515 *	US-PATENT-APPL-SN-803823	c 44	N79-11467 *	US-PATENT-APPL-SN-822240	c 23	N92-17882 *
US-PATENT-APPL-SN-78904								

REPORT NUMBER INDEX

US-PATENT-APPL-SN-867851

US-PATENT-APPL-SN-82279	c 03	N76-32140 *	US-PATENT-APPL-SN-838654	c 27	N90-21198 *	US-PATENT-APPL-SN-853679	c 35	N79-14346 *
US-PATENT-APPL-SN-82280	c 09	N72-25262 *	US-PATENT-APPL-SN-838655	c 27	N87-22848 *	US-PATENT-APPL-SN-853705	c 45	N79-12584 *
US-PATENT-APPL-SN-823061	c 44	N79-23481 *	US-PATENT-APPL-SN-839934	c 07	N72-20140 *	US-PATENT-APPL-SN-853716	c 09	N71-24904 *
US-PATENT-APPL-SN-823566	c 74	N79-14891 *	US-PATENT-APPL-SN-839935	c 15	N71-24895 *	US-PATENT-APPL-SN-853746	c 02	N72-11018 *
US-PATENT-APPL-SN-823712	c 44	N88-14492 *	US-PATENT-APPL-SN-839941	c 07	N71-26181 *	US-PATENT-APPL-SN-853763	c 07	N70-12616 #
US-PATENT-APPL-SN-823713	c 26	N88-14179 *	US-PATENT-APPL-SN-839963	c 27	N79-33316 *	US-PATENT-APPL-SN-853763	c 07	N72-33146 *
US-PATENT-APPL-SN-824024	c 44	N79-18443 *	US-PATENT-APPL-SN-839963	c 27	N81-14078 *	US-PATENT-APPL-SN-853855	c 17	N72-22530 *
US-PATENT-APPL-SN-824042	c 23	N71-29123 *	US-PATENT-APPL-SN-839994	c 28	N71-28915 *	US-PATENT-APPL-SN-853855	c 17	N72-28535 *
US-PATENT-APPL-SN-824628	c 34	N78-17337 *	US-PATENT-APPL-SN-84002	c 08	N73-20217 *	US-PATENT-APPL-SN-853856	c 16	N71-29131 *
US-PATENT-APPL-SN-824755	c 09	N70-33182 *	US-PATENT-APPL-SN-840176	c 28	N71-27095 *	US-PATENT-APPL-SN-853983	c 14	N70-33254 *
US-PATENT-APPL-SN-825253	c 16	N69-31343 #	US-PATENT-APPL-SN-840308	c 07	N71-33613 *	US-PATENT-APPL-SN-853984	c 21	N70-33181 *
US-PATENT-APPL-SN-825258	c 26	N72-21701 *	US-PATENT-APPL-SN-840359	c 23	N71-29125 *	US-PATENT-APPL-SN-854815	c 09	N71-24807 *
US-PATENT-APPL-SN-825259	c 14	N71-26788 *	US-PATENT-APPL-SN-840816	c 27	N87-28657 *	US-PATENT-APPL-SN-854920	c 15	N79-26100 *
US-PATENT-APPL-SN-825489	c 27	N81-15104 *	US-PATENT-APPL-SN-840870	c 15	N71-26189 *	US-PATENT-APPL-SN-855004	c 24	N72-11595 *
US-PATENT-APPL-SN-826202	c 37	N79-28551 *	US-PATENT-APPL-SN-840900	c 26	N87-25455 *	US-PATENT-APPL-SN-855364	c 52	N81-27783 *
US-PATENT-APPL-SN-826204	c 37	N79-10420 *	US-PATENT-APPL-SN-840983	c 05	N70-33285 *	US-PATENT-APPL-SN-85585	c 21	N70-35427 *
US-PATENT-APPL-SN-826326	c 46	N79-22679 *	US-PATENT-APPL-SN-841278	c 33	N77-21316 *	US-PATENT-APPL-SN-855879	c 27	N88-18725 *
US-PATENT-APPL-SN-82647	c 28	N72-22772 *	US-PATENT-APPL-SN-841845	c 14	N73-32317 *	US-PATENT-APPL-SN-855982	c 31	N88-14223 *
US-PATENT-APPL-SN-82648	c 12	N72-25292 *	US-PATENT-APPL-SN-84212	c 27	N74-17283 *	US-PATENT-APPL-SN-855983	c 03	N88-14083 *
US-PATENT-APPL-SN-82649	c 08	N73-30135 *	US-PATENT-APPL-SN-842170	c 11	N70-33278 *	US-PATENT-APPL-SN-856253	c 24	N74-19769 *
US-PATENT-APPL-SN-826547	c 37	N92-17678 #	US-PATENT-APPL-SN-842171	c 11	N70-33329 *	US-PATENT-APPL-SN-856258	c 05	N71-17599 *
US-PATENT-APPL-SN-826558	c 30	N70-40309 *	US-PATENT-APPL-SN-84289	c 15	N73-14469 *	US-PATENT-APPL-SN-856279	c 07	N72-21118 *
US-PATENT-APPL-SN-827185	c 52	N89-16256 *	US-PATENT-APPL-SN-84290	c 05	N73-20137 *	US-PATENT-APPL-SN-856282	c 08	N72-22166 *
US-PATENT-APPL-SN-827464	c 74	N79-34011 *	US-PATENT-APPL-SN-843022	c 11	N70-33287 *	US-PATENT-APPL-SN-856327	c 05	N72-16015 *
US-PATENT-APPL-SN-827579	c 15	N71-24984 *	US-PATENT-APPL-SN-843032	c 28	N70-41818 *	US-PATENT-APPL-SN-856328	c 14	N72-22441 *
US-PATENT-APPL-SN-827597	c 26	N69-33482 #	US-PATENT-APPL-SN-843090	c 27	N79-22300 *	US-PATENT-APPL-SN-856415	c 09	N71-26182 *
US-PATENT-APPL-SN-828262	c 37	N79-14383 *	US-PATENT-APPL-SN-843251	c 03	N72-11062 *	US-PATENT-APPL-SN-856460	c 25	N79-24073 *
US-PATENT-APPL-SN-828909	c 28	N71-27094 *	US-PATENT-APPL-SN-843308	c 32	N79-14268 *	US-PATENT-APPL-SN-856461	c 34	N79-12359 *
US-PATENT-APPL-SN-828920	c 35	N74-22095 *	US-PATENT-APPL-SN-844225	c 05	N72-25120 *	US-PATENT-APPL-SN-856462	c 34	N80-24573 *
US-PATENT-APPL-SN-828921	c 09	N71-27001 *	US-PATENT-APPL-SN-844243	c 37	N75-29426 *	US-PATENT-APPL-SN-856462	c 44	N81-24519 *
US-PATENT-APPL-SN-828983	c 03	N71-24719 *	US-PATENT-APPL-SN-844315	c 35	N77-21392 *	US-PATENT-APPL-SN-856464	c 36	N79-14362 *
US-PATENT-APPL-SN-828984	c 08	N71-29033 *	US-PATENT-APPL-SN-844344	c 24	N79-14156 *	US-PATENT-APPL-SN-856465	c 44	N80-14473 *
US-PATENT-APPL-SN-829042	c 35	N89-14407 *	US-PATENT-APPL-SN-844346	c 44	N79-11472 *	US-PATENT-APPL-SN-856466	c 72	N80-14877 *
US-PATENT-APPL-SN-829314	c 09	N71-31228 *	US-PATENT-APPL-SN-844355	c 03	N72-26031 *	US-PATENT-APPL-SN-857241	c 46	N74-23069 *
US-PATENT-APPL-SN-829315	c 34	N79-20336 *	US-PATENT-APPL-SN-845365	c 09	N71-13518 *	US-PATENT-APPL-SN-857445	c 05	N71-24728 *
US-PATENT-APPL-SN-829316	c 18	N79-11108 *	US-PATENT-APPL-SN-845584	c 27	N73-22710 *	US-PATENT-APPL-SN-857967	c 15	N72-20443 *
US-PATENT-APPL-SN-829317	c 52	N80-18690 *	US-PATENT-APPL-SN-845807	c 15	N72-11391 *	US-PATENT-APPL-SN-858054	c 31	N91-32240 *
US-PATENT-APPL-SN-829318	c 52	N80-14684 *	US-PATENT-APPL-SN-845971	c 11	N71-28629 *	US-PATENT-APPL-SN-858596	c 35	N78-18395 #
US-PATENT-APPL-SN-829390	c 44	N79-11469 *	US-PATENT-APPL-SN-845972	c 09	N70-11148 #	US-PATENT-APPL-SN-858695	c 11	N72-22247 *
US-PATENT-APPL-SN-829390	c 44	N80-16452 *	US-PATENT-APPL-SN-845973	c 11	N71-24985 *	US-PATENT-APPL-SN-858762	c 08	N79-23097 *
US-PATENT-APPL-SN-829825	c 03	N71-24681 *	US-PATENT-APPL-SN-845974	c 33	N71-25353 *	US-PATENT-APPL-SN-858764	c 33	N79-10338 *
US-PATENT-APPL-SN-830272	c 33	N81-29342 *	US-PATENT-APPL-SN-845990	c 14	N71-27005 *	US-PATENT-APPL-SN-858765	c 33	N79-11313 *
US-PATENT-APPL-SN-830366	c 16	N72-13437 *	US-PATENT-APPL-SN-845991	c 14	N71-29134 *	US-PATENT-APPL-SN-858766	c 27	N79-14213 *
US-PATENT-APPL-SN-830458	c 46	N79-23555 *	US-PATENT-APPL-SN-846427	c 36	N88-14350 *	US-PATENT-APPL-SN-858767	c 32	N83-19968 *
US-PATENT-APPL-SN-830562	c 39	N80-10507 *	US-PATENT-APPL-SN-846428	c 34	N87-21255 *	US-PATENT-APPL-SN-858936	c 07	N80-18039 *
US-PATENT-APPL-SN-830715	c 15	N71-24903 *	US-PATENT-APPL-SN-846429	c 35	N88-29149 *	US-PATENT-APPL-SN-858950	c 35	N78-17359 *
US-PATENT-APPL-SN-830846	c 31	N80-32584 *	US-PATENT-APPL-SN-846430	c 82	N87-29372 *	US-PATENT-APPL-SN-86018	c 23	N71-30292 *
US-PATENT-APPL-SN-830978	c 28	N71-26173 *	US-PATENT-APPL-SN-846439	c 08	N87-23631 *	US-PATENT-APPL-SN-860404	c 37	N81-15364 *
US-PATENT-APPL-SN-831118	c 08	N72-11172 *	US-PATENT-APPL-SN-846462	c 07	N87-16828 *	US-PATENT-APPL-SN-860405	c 26	N79-22271 *
US-PATENT-APPL-SN-831193	c 31	N88-26568 *	US-PATENT-APPL-SN-847023	c 31	N70-37938 *	US-PATENT-APPL-SN-860406	c 24	N79-17916 *
US-PATENT-APPL-SN-831371	c 32	N87-25492 *	US-PATENT-APPL-SN-847027	c 03	N70-33343 *	US-PATENT-APPL-SN-860492	c 09	N72-20199 *
US-PATENT-APPL-SN-831372	c 35	N88-30108 *	US-PATENT-APPL-SN-847276	c 31	N81-32510 *	US-PATENT-APPL-SN-860493	c 14	N72-16283 *
US-PATENT-APPL-SN-831377	c 37	N87-23982 *	US-PATENT-APPL-SN-847277	c 37	N79-28370 *	US-PATENT-APPL-SN-860635	c 28	N72-17843 *
US-PATENT-APPL-SN-831631	c 32	N79-20297 *	US-PATENT-APPL-SN-847278	c 34	N79-20335 *	US-PATENT-APPL-SN-860750	c 08	N72-22165 *
US-PATENT-APPL-SN-831632	c 07	N80-26298 *	US-PATENT-APPL-SN-847596	c 15	N70-10867 #	US-PATENT-APPL-SN-860751	c 08	N72-18184 *
US-PATENT-APPL-SN-831633	c 05	N80-14107 *	US-PATENT-APPL-SN-847815	c 52	N75-15270 *	US-PATENT-APPL-SN-860781	c 18	N72-22567 *
US-PATENT-APPL-SN-831634	c 05	N79-12061 *	US-PATENT-APPL-SN-848282	c 15	N72-21462 *	US-PATENT-APPL-SN-861152	c 14	N70-33322 *
US-PATENT-APPL-SN-832296	c 26	N87-28647 *	US-PATENT-APPL-SN-848325	c 06	N70-11251 #	US-PATENT-APPL-SN-861390	c 28	N79-28342 *
US-PATENT-APPL-SN-832603	c 09	N72-22199 *	US-PATENT-APPL-SN-848351	c 06	N70-11252 #	US-PATENT-APPL-SN-861391	c 44	N79-12541 *
US-PATENT-APPL-SN-833049	c 06	N72-21094 *	US-PATENT-APPL-SN-848403	c 33	N74-20859 *	US-PATENT-APPL-SN-861392	c 71	N79-23753 *
US-PATENT-APPL-SN-833637	c 33	N79-24257 *	US-PATENT-APPL-SN-848403	c 36	N75-27364 *	US-PATENT-APPL-SN-861396	c 35	N79-14349 *
US-PATENT-APPL-SN-834257	c 32	N80-14281 *	US-PATENT-APPL-SN-848418	c 43	N79-26439 *	US-PATENT-APPL-SN-861649	c 14	N72-17327 *
US-PATENT-APPL-SN-834977	c 27	N87-23736 *	US-PATENT-APPL-SN-848419	c 43	N80-23711 *	US-PATENT-APPL-SN-862878	c 09	N82-29330 *
US-PATENT-APPL-SN-834978	c 27	N86-24841 #	US-PATENT-APPL-SN-848420	c 43	N79-25443 *	US-PATENT-APPL-SN-862880	c 24	N79-31347 *
US-PATENT-APPL-SN-835058	c 21	N72-22619 *	US-PATENT-APPL-SN-848421	c 43	N80-14423 *	US-PATENT-APPL-SN-862921	c 31	N71-29050 *
US-PATENT-APPL-SN-835059	c 09	N71-26133 *	US-PATENT-APPL-SN-848428	c 25	N82-21268 *	US-PATENT-APPL-SN-862925	c 24	N88-18628 *
US-PATENT-APPL-SN-835060	c 02	N71-26110 *	US-PATENT-APPL-SN-848481	c 17	N70-33283 *	US-PATENT-APPL-SN-862942	c 33	N90-20320 *
US-PATENT-APPL-SN-835146	c 15	N70-33264 *	US-PATENT-APPL-SN-848776	c 07	N72-22127 *	US-PATENT-APPL-SN-862959	c 33	N87-21232 *
US-PATENT-APPL-SN-835152	c 28	N70-38199 *	US-PATENT-APPL-SN-848793	c 43	N79-31706 *	US-PATENT-APPL-SN-863024	c 46	N80-14603 *
US-PATENT-APPL-SN-835153	c 31	N71-17680 *	US-PATENT-APPL-SN-848794	c 44	N79-24431 *	US-PATENT-APPL-SN-863276	c 16	N72-12440 *
US-PATENT-APPL-SN-835419	c 33	N80-18285 *	US-PATENT-APPL-SN-848805	c 06	N72-17095 *	US-PATENT-APPL-SN-863280	c 24	N72-33681 *
US-PATENT-APPL-SN-835544	c 33	N79-14305 *	US-PATENT-APPL-SN-848810	c 07	N72-11448 *	US-PATENT-APPL-SN-8636	c 15	N72-25451 *
US-PATENT-APPL-SN-835628	c 35	N79-14347 *	US-PATENT-APPL-SN-848811	c 10	N71-26142 *	US-PATENT-APPL-SN-863770	c 44	N79-18444 *
US-PATENT-APPL-SN-836280	c 14	N73-14428 *	US-PATENT-APPL-SN-849106	c 09	N72-22197 *	US-PATENT-APPL-SN-863773	c 44	N79-26475 *
US-PATENT-APPL-SN-836280	c 35	N75-25122 *	US-PATENT-APPL-SN-849274	c 28	N79-14228 *	US-PATENT-APPL-SN-863913	c 14	N71-28991 *
US-PATENT-APPL-SN-836367	c 09	N71-24804 *	US-PATENT-APPL-SN-84961	c 02	N70-34178 *	US-PATENT-APPL-SN-863914	c 09	N72-31235 *
US-PATENT-APPL-SN-837259	c 54	N79-24652 *	US-PATENT-APPL-SN-84962	c 21	N70-36943 *	US-PATENT-APPL-SN-863963	c 10	N71-26085 *
US-PATENT-APPL-SN-837260	c 37	N78-27423 *	US-PATENT-APPL-SN-8497	c 14	N72-11363 *	US-PATENT-APPL-SN-863967	c 11	N71-27036 *
US-PATENT-APPL-SN-837377	c 15	N71-26148 *	US-PATENT-APPL-SN-8498	c 05	N71-24729 *	US-PATENT-APPL-SN-864020	c 15	N72-17454 *
US-PATENT-APPL-SN-837378	c 15	N71-24865 *	US-PATENT-APPL-SN-850504	c 52	N81-14613 *	US-PATENT-APPL-SN-864039	c 15	N72-22483 *
US-PATENT-APPL-SN-837513	c 44	N81-29525 *	US-PATENT-APPL-SN-850504	c 52	N81-29764 *	US-PATENT-APPL-SN-864097	c 07	N71-33606 *
US-PATENT-APPL-SN-837513	c 44	N82-28780 *	US-PATENT-APPL-SN-850507	c 25	N79-14169 *	US-PATENT-APPL-SN-86417	c 07	N72-25171 *
US-PATENT-APPL-SN-837794	c 28	N80-20402 *	US-PATENT-APPL-SN-850586	c 31	N71-25434 *	US-PATENT-APPL-SN-8650	c 03	N72-25021 *
US-PATENT-APPL-SN-837794	c 28	N81-14103 *	US-PATENT-APPL-SN-850587	c 08	N72-21199 *	US-PATENT-APPL-SN-865106	c 09	N72-22202 *
US-PATENT-APPL-SN-837795	c 36	N80-14384 *	US-PATENT-APPL-SN-851298	c 15	N72-12409 *	US-PATENT-APPL-SN-865109	c 14	N71-28933 *
US-PATENT-APPL-SN-837796	c 35	N79-14345 *	US-PATENT-APPL-SN-851394	c 09	N71-24892 *	US-PATENT-APPL-SN-865274	c 09	N72-17155 *
US-PATENT-APPL-SN-837825	c 15	N71-27006 *	US-PATENT-APPL-SN-852131	c 15	N71-24836 *	US-PATENT-APPL-SN-865298	c 15	N72-11388 *
US-PATENT-APPL-SN-837830	c 02	N71-27088 *	US-PATENT-APPL-SN-852461	c 27	N89-16042 *	US-PATENT-APPL-SN-865329	c 15	N71-29132 *
US-PATENT-APPL-SN-83816	c 44	N74-14784 *	US-PATENT-APPL-SN-852466	c 37	N87-24689 *	US-PATENT-APPL-SN-86548	c 09	N72-21243 *
US-PATENT-APPL-SN-838278	c 60	N74-20836 *	US-PATENT-APPL-SN-852467	c 27	N87-24564 *	US-PATENT-APPL-SN-865811	c 09	N71-27053 *
US-PATENT-APPL-SN-838308	c 52	N80-27072 *	US-PATENT-APPL-SN-852468	c 72	N87-21661 *	US-PATENT-APPL-SN-865909	c 14	N72-11364 *
US-PATENT-APPL-SN-838336	c 44	N79-11470 *	US-PATENT-APPL-SN-852843	c 09	N72-22195 *	US-PATENT-APPL-SN-866442	c 25	N72-24753 *
US-PATENT-APPL-SN-838337	c 31	N79-17029 *	US-PATENT-APPL-SN-853349	c 35	N81-33448 *	US-PATENT-APPL-SN-867841	c 11	N72-22246 *
US-PATENT-APPL-SN-8								

US-PATENT-APPL-SN-867986	c 74	N86-33138 *	#	US-PATENT-APPL-SN-887701	c 08	N71-29034 *	US-PATENT-APPL-SN-911851	c 29	N87-18679 *	#
US-PATENT-APPL-SN-867987	c 27	N88-23894		US-PATENT-APPL-SN-888362	c 33	N80-14330 *	US-PATENT-APPL-SN-912276	c 24	N81-29163 *	
US-PATENT-APPL-SN-868249	c 33	N80-18286 *		US-PATENT-APPL-SN-888432	c 74	N81-17886 *	US-PATENT-APPL-SN-913432	c 18	N88-23828	
US-PATENT-APPL-SN-868445	c 14	N72-17323 *		US-PATENT-APPL-SN-888434	c 51	N83-27569 *	US-PATENT-APPL-SN-913433	c 33	N87-15413 *	#
US-PATENT-APPL-SN-868529	c 08	N72-22167 *		US-PATENT-APPL-SN-889374	c 08	N72-25207 *	US-PATENT-APPL-SN-913446	c 37	N87-15465 *	#
US-PATENT-APPL-SN-868530	c 05	N72-11084 *		US-PATENT-APPL-SN-889375	c 10	N72-20222 *	US-PATENT-APPL-SN-914260	c 44	N79-26474 *	
US-PATENT-APPL-SN-868775	c 09	N72-25261 *		US-PATENT-APPL-SN-889376	c 18	N71-26285 *	US-PATENT-APPL-SN-915050	c 44	N81-12542 *	
US-PATENT-APPL-SN-868775	c 09	N73-27150 *	#	US-PATENT-APPL-SN-889387	c 09	N71-29035 *	US-PATENT-APPL-SN-91642	c 14	N72-31446 *	
US-PATENT-APPL-SN-869260	c 05	N72-20097 *		US-PATENT-APPL-SN-889420	c 14	N72-25413 *	US-PATENT-APPL-SN-916654	c 07	N81-29129 *	
US-PATENT-APPL-SN-869260	c 05	N73-25125 *		US-PATENT-APPL-SN-889422	c 09	N72-25259 *	US-PATENT-APPL-SN-916655	c 44	N80-14472 *	
US-PATENT-APPL-SN-870689	c 06	N72-25148 *		US-PATENT-APPL-SN-889423	c 10	N72-22236 *	US-PATENT-APPL-SN-917125	c 35	N89-12048 *	
US-PATENT-APPL-SN-871207	c 23	N86-32526 *	#	US-PATENT-APPL-SN-889437	c 15	N72-11392 *	US-PATENT-APPL-SN-918533	c 32	N79-23310 *	
US-PATENT-APPL-SN-87222	c 05	N72-27103 *		US-PATENT-APPL-SN-889438	c 15	N72-18477 *	US-PATENT-APPL-SN-918534	c 33	N80-32650 *	
US-PATENT-APPL-SN-872602	c 09	N72-22200 *		US-PATENT-APPL-SN-889478	c 08	N71-29138 *	US-PATENT-APPL-SN-918535	c 35	N80-18357 *	
US-PATENT-APPL-SN-872664	c 08	N70-34675 *	#	US-PATENT-APPL-SN-889479	c 14	N72-17325 *	US-PATENT-APPL-SN-918537	c 26	N80-14229 *	
US-PATENT-APPL-SN-873045	c 14	N72-20379 *		US-PATENT-APPL-SN-889551	c 21	N72-21624 *	US-PATENT-APPL-SN-918705	c 52	N82-33996 *	
US-PATENT-APPL-SN-873259	c 08	N72-21200 *		US-PATENT-APPL-SN-889554	c 15	N72-20444 *	US-PATENT-APPL-SN-920878	c 24	N78-27184 *	#
US-PATENT-APPL-SN-873260	c 33	N72-17948 *		US-PATENT-APPL-SN-889555	c 09	N72-17154 *	US-PATENT-APPL-SN-920879	c 44	N79-31752 *	
US-PATENT-APPL-SN-873793	c 14	N72-21407 *		US-PATENT-APPL-SN-889556	c 14	N72-18411 *	US-PATENT-APPL-SN-921572	c 24	N90-25196 *	
US-PATENT-APPL-SN-874177	c 11	N72-25284 *		US-PATENT-APPL-SN-889557	c 11	N72-17183 *	US-PATENT-APPL-SN-921572	c 24	N91-25199 *	
US-PATENT-APPL-SN-874319	c 35	N88-23966 *		US-PATENT-APPL-SN-889558	c 15	N72-22491 *	US-PATENT-APPL-SN-921573	c 37	N87-14704 *	#
US-PATENT-APPL-SN-874435	c 11	N71-33612 *		US-PATENT-APPL-SN-889583	c 15	N72-21464 *	US-PATENT-APPL-SN-921574	c 31	N90-19425 *	
US-PATENT-APPL-SN-874673	c 27	N82-29454 *		US-PATENT-APPL-SN-889584	c 08	N73-12226 *	US-PATENT-APPL-SN-921576	c 33	N91-31530 *	
US-PATENT-APPL-SN-874674	c 27	N82-29452 *		US-PATENT-APPL-SN-889670	c 39	N79-22537 *	US-PATENT-APPL-SN-921577	c 37	N89-13785 *	
US-PATENT-APPL-SN-874675	c 27	N82-29455 *		US-PATENT-APPL-SN-889671	c 24	N81-14000 *	US-PATENT-APPL-SN-921626	c 25	N80-23383 *	
US-PATENT-APPL-SN-874732	c 09	N71-29139 *		US-PATENT-APPL-SN-889671	c 24	N81-33235 *	US-PATENT-APPL-SN-921627	c 33	N80-14332 *	
US-PATENT-APPL-SN-874733	c 15	N71-26635 *		US-PATENT-APPL-SN-889682	c 15	N72-25447 *	US-PATENT-APPL-SN-923758	c 20	N78-27176 *	#
US-PATENT-APPL-SN-874958	c 31	N71-15566 *		US-PATENT-APPL-SN-890045	c 18	N87-27713 *	US-PATENT-APPL-SN-923758	c 20	N80-10278 *	
US-PATENT-APPL-SN-87550	c 06	N72-25146 *		US-PATENT-APPL-SN-890575	c 09	N87-25334 *	US-PATENT-APPL-SN-924297	c 71	N90-12289 *	
US-PATENT-APPL-SN-87551	c 33	N73-16918 *		US-PATENT-APPL-SN-890577	c 27	N88-29040 *	US-PATENT-APPL-SN-924398	c 14	N87-25344 *	
US-PATENT-APPL-SN-875798	c 37	N88-23978 *		US-PATENT-APPL-SN-890586	c 32	N87-15390 *	US-PATENT-APPL-SN-924399	c 76	N88-24545 *	
US-PATENT-APPL-SN-875799	c 34	N87-28867 *		US-PATENT-APPL-SN-890683	c 37	N88-23981 *	US-PATENT-APPL-SN-924467	c 23	N88-24692 *	
US-PATENT-APPL-SN-875849	c 07	N71-33696 *		US-PATENT-APPL-SN-890982	c 35	N88-29150 *	US-PATENT-APPL-SN-924470	c 23	N90-19300 *	
US-PATENT-APPL-SN-875891	c 31	N86-32589 *	#	US-PATENT-APPL-SN-891243	c 44	N79-25482 *	US-PATENT-APPL-SN-924472	c 32	N87-18692 *	#
US-PATENT-APPL-SN-87597	c 33	N74-22864 *		US-PATENT-APPL-SN-891244	c 05	N79-24976 *	US-PATENT-APPL-SN-924474	c 23	N88-26404 *	
US-PATENT-APPL-SN-876299	c 44	N80-18552 *		US-PATENT-APPL-SN-891356	c 35	N80-18359 *	US-PATENT-APPL-SN-924474	c 25	N90-23497 *	
US-PATENT-APPL-SN-876431	c 33	N79-24254 *		US-PATENT-APPL-SN-891358	c 44	N80-14474 *	US-PATENT-APPL-SN-924474	c 23	N91-17141 *	
US-PATENT-APPL-SN-876432	c 36	N80-18372 *		US-PATENT-APPL-SN-891370	c 20	N79-20179 *	US-PATENT-APPL-SN-925189	c 76	N88-24544 *	
US-PATENT-APPL-SN-876438	c 52	N79-26772 *		US-PATENT-APPL-SN-891372	c 37	N79-22474 *	US-PATENT-APPL-SN-9251	c 03	N70-34646 *	#
US-PATENT-APPL-SN-876440	c 51	N80-16714 *		US-PATENT-APPL-SN-891373	c 31	N80-18231 *	US-PATENT-APPL-SN-927972	c 74	N89-14078 *	
US-PATENT-APPL-SN-876441	c 74	N79-20856 *		US-PATENT-APPL-SN-891872	c 25	N82-24312 *	US-PATENT-APPL-SN-927987	c 62	N90-19776 *	
US-PATENT-APPL-SN-876588	c 15	N72-25452 *		US-PATENT-APPL-SN-89209	c 09	N72-25248 *	US-PATENT-APPL-SN-927992	c 37	N87-18818 *	#
US-PATENT-APPL-SN-876588	c 25	N74-30502 *		US-PATENT-APPL-SN-89210	c 07	N73-26119 *	US-PATENT-APPL-SN-928128	c 44	N80-18551 *	
US-PATENT-APPL-SN-877445	c 23	N82-29358 *		US-PATENT-APPL-SN-89211	c 14	N73-12446 *	US-PATENT-APPL-SN-928129	c 35	N80-14371 *	
US-PATENT-APPL-SN-877717	c 14	N72-27410 *		US-PATENT-APPL-SN-89212	c 08	N72-25208 *	US-PATENT-APPL-SN-928130	c 35	N80-20559 *	
US-PATENT-APPL-SN-877717	c 14	N73-13417 *		US-PATENT-APPL-SN-893382	c 34	N79-24285 *	US-PATENT-APPL-SN-928131	c 09	N79-31228 *	
US-PATENT-APPL-SN-877990	c 14	N72-28437 *		US-PATENT-APPL-SN-893383	c 31	N81-27323 *	US-PATENT-APPL-SN-928133	c 44	N80-18550 *	
US-PATENT-APPL-SN-878253	c 25	N81-33246 *		US-PATENT-APPL-SN-893387	c 51	N80-27067 *	US-PATENT-APPL-SN-928137	c 52	N80-23969 *	
US-PATENT-APPL-SN-878539	c 35	N80-20560 *		US-PATENT-APPL-SN-893857	c 24	N81-17170 *	US-PATENT-APPL-SN-929083	c 36	N80-16321 *	
US-PATENT-APPL-SN-878540	c 24	N82-26384 *		US-PATENT-APPL-SN-893857	c 24	N81-26179 *	US-PATENT-APPL-SN-929084	c 37	N81-19455 *	
US-PATENT-APPL-SN-878541	c 33	N81-14220 *		US-PATENT-APPL-SN-893865	c 37	N81-24443 *	US-PATENT-APPL-SN-929086	c 24	N81-13999 *	
US-PATENT-APPL-SN-878542	c 33	N79-28416 *		US-PATENT-APPL-SN-893903	c 60	N81-15706 *	US-PATENT-APPL-SN-929087	c 35	N80-28687 *	
US-PATENT-APPL-SN-878730	c 08	N72-22164 *		US-PATENT-APPL-SN-894213	c 37	N80-23655 *	US-PATENT-APPL-SN-929088	c 74	N80-24149 *	
US-PATENT-APPL-SN-878731	c 15	N71-26162 *		US-PATENT-APPL-SN-894541	c 54	N89-29953 *	US-PATENT-APPL-SN-929862	c 02	N89-12551 *	
US-PATENT-APPL-SN-878916	c 60	N87-14863 *		US-PATENT-APPL-SN-897828	c 52	N81-29763 *	US-PATENT-APPL-SN-929865	c 18	N89-12621 *	
US-PATENT-APPL-SN-879757	c 33	N87-10231 *	#	US-PATENT-APPL-SN-897829	c 44	N79-25481 *	US-PATENT-APPL-SN-929869	c 35	N87-23941 *	#
US-PATENT-APPL-SN-879758	c 33	N88-23942 *		US-PATENT-APPL-SN-897830	c 35	N80-21719 *	US-PATENT-APPL-SN-929869	c 52	N90-21519 *	
US-PATENT-APPL-SN-880246	c 28	N72-22770 *		US-PATENT-APPL-SN-897831	c 44	N80-20808 *	US-PATENT-APPL-SN-929869	c 52	N92-11621 *	
US-PATENT-APPL-SN-880247	c 09	N70-20737 *	#	US-PATENT-APPL-SN-897832	c 43	N81-26509 *	US-PATENT-APPL-SN-929875	c 18	N88-28958 *	
US-PATENT-APPL-SN-880248	c 07	N72-11150 *		US-PATENT-APPL-SN-897840	c 31	N81-14137 *	US-PATENT-APPL-SN-929875	c 18	N89-28554 *	
US-PATENT-APPL-SN-880249	c 15	N72-22482 *		US-PATENT-APPL-SN-898449	c 31	N88-29052 *	US-PATENT-APPL-SN-929876	c 32	N91-14523 *	
US-PATENT-APPL-SN-880250	c 03	N72-20032 *		US-PATENT-APPL-SN-899123	c 44	N79-14528 *	US-PATENT-APPL-SN-930217	c 25	N88-24732 *	
US-PATENT-APPL-SN-880271	c 15	N72-25448 *		US-PATENT-APPL-SN-899683	c 18	N91-27199 *	US-PATENT-APPL-SN-931090	c 37	N80-26658 *	
US-PATENT-APPL-SN-880272	c 14	N71-27058 *		US-PATENT-APPL-SN-899828	c 32	N80-18252 *	US-PATENT-APPL-SN-931090	c 37	N82-19540 *	
US-PATENT-APPL-SN-880398	c 15	N73-12487 *		US-PATENT-APPL-SN-900659	c 27	N81-17261 *	US-PATENT-APPL-SN-931217	c 37	N80-32716 *	
US-PATENT-APPL-SN-880726	c 44	N80-21828 *		US-PATENT-APPL-SN-900841	c 32	N82-31583 *	US-PATENT-APPL-SN-931218	c 20	N80-18097 *	
US-PATENT-APPL-SN-880727	c 35	N79-28527 *		US-PATENT-APPL-SN-900842	c 32	N79-24203 *	US-PATENT-APPL-SN-933186	c 27	N80-32515 *	
US-PATENT-APPL-SN-880728	c 37	N80-10494 *		US-PATENT-APPL-SN-900843	c 44	N80-20810 *	US-PATENT-APPL-SN-93329	c 09	N73-26195 *	
US-PATENT-APPL-SN-880729	c 35	N80-20563 *		US-PATENT-APPL-SN-901055	c 76	N80-32245 *	US-PATENT-APPL-SN-933941	c 33	N89-14385 *	
US-PATENT-APPL-SN-880831	c 11	N72-20244 *		US-PATENT-APPL-SN-901113	c 35	N87-28884 *	US-PATENT-APPL-SN-933961	c 76	N87-29360 *	
US-PATENT-APPL-SN-880838	c 37	N79-28549 *		US-PATENT-APPL-SN-901114	c 76	N88-14836 *	US-PATENT-APPL-SN-933962	c 25	N88-29002 *	
US-PATENT-APPL-SN-880885	c 07	N72-12080 *		US-PATENT-APPL-SN-901496	c 23	N87-23698 *	US-PATENT-APPL-SN-933963	c 05	N88-28914 *	
US-PATENT-APPL-SN-881039	c 09	N71-24842 *		US-PATENT-APPL-SN-903019	c 46	N80-10709 *	US-PATENT-APPL-SN-934397	c 18	N88-23827 *	
US-PATENT-APPL-SN-881041	c 09	N72-22204 *		US-PATENT-APPL-SN-904128	c 25	N88-23845 *	US-PATENT-APPL-SN-934576	c 35	N80-18358 *	
US-PATENT-APPL-SN-882122	c 14	N72-22438 *		US-PATENT-APPL-SN-904132	c 02	N89-14224 *	US-PATENT-APPL-SN-935827	c 37	N80-18393 *	
US-PATENT-APPL-SN-882577	c 07	N71-27056 *		US-PATENT-APPL-SN-904134	c 18	N88-26398 *	US-PATENT-APPL-SN-93714	c 44	N82-28780 *	
US-PATENT-APPL-SN-883090	c 44	N80-29834 *		US-PATENT-APPL-SN-904513	c 33	N88-14270 *	US-PATENT-APPL-SN-938293	c 32	N80-32605 *	
US-PATENT-APPL-SN-883094	c 54	N79-24651 *		US-PATENT-APPL-SN-904812	c 37	N88-14359 *	US-PATENT-APPL-SN-938297	c 25	N81-14015 *	
US-PATENT-APPL-SN-883523	c 09	N72-33204 *		US-PATENT-APPL-SN-90595	c 03	N72-20031 *	US-PATENT-APPL-SN-938298	c 33	N81-17348 *	
US-PATENT-APPL-SN-883524	c 09	N72-21246 *		US-PATENT-APPL-SN-906297	c 44	N79-14529 *	US-PATENT-APPL-SN-938299	c 33	N81-19389 *	
US-PATENT-APPL-SN-883961	c 25	N80-16116 *		US-PATENT-APPL-SN-906298	c 76	N80-18951 *	US-PATENT-APPL-SN-938300	c 37	N80-23654 *	
US-PATENT-APPL-SN-88435	c 35	N74-15090 *		US-PATENT-APPL-SN-906299	c 27	N80-16158 *	US-PATENT-APPL-SN-938579	c 76	N80-32244 *	
US-PATENT-APPL-SN-885049	c 33	N79-23345 *		US-PATENT-APPL-SN-907421	c 37	N81-14318 *	US-PATENT-APPL-SN-938581	c 04	N80-32359 *	
US-PATENT-APPL-SN-885065	c 35	N79-18296 *		US-PATENT-APPL-SN-907431	c 37	N81-25370 *	US-PATENT-APPL-SN-938582	c 37	N80-23653 *	
US-PATENT-APPL-SN-885066	c 33	N80-26599 *		US-PATENT-APPL-SN-907435	c 27	N80-10358 *	US-PATENT-APPL-SN-94049	c 14	N73-20476 *	
US-PATENT-APPL-SN-885067	c 33	N79-28415 *		US-PATENT-APPL-SN-907436	c 37	N80-14398 *	US-PATENT-APPL-SN-940688	c 24	N79-24062 *	
US-PATENT-APPL-SN-885521	c 03	N72-28025 *		US-PATENT-APPL-SN-907479	c 27	N80-24438 *	US-PATENT-APPL-SN-940689	c 35	N80-28686 *	
US-PATENT-APPL-SN-885571	c 09	N71-28886 *		US-PATENT-APPL-SN-909100	c 37	N79-28550 *	US-PATENT-APPL-SN-940970	c 72	N80-27163 *	
US-PATENT-APPL-SN-885594	c 15	N71-29133 *		US-PATENT-APPL-SN-909235	c 07	N81-19115 *	US-PATENT-APPL-SN-941711	c 24	N80-28388 *	

US-PATENT-APPL-SN-943346	c 34	N88-29132 *	US-PATENT-CASE-367-906	c 05	N83-27975 *	US-PATENT-CLASS-106-13	c 23	N75-14834 *
US-PATENT-APPL-SN-94347	c 05	N72-25122 *	US-PATENT-CASE-368-10	c 35	N83-29651 *	US-PATENT-CLASS-106-15FP	c 27	N74-27037 *
US-PATENT-APPL-SN-94369	c 07	N71-28965 *	US-PATENT-CASE-368-118	c 35	N83-29651 *	US-PATENT-CLASS-106-15FP	c 27	N76-24405 *
US-PATENT-APPL-SN-94374	c 14	N72-25411 *	US-PATENT-CASE-368-119	c 35	N83-29651 *	US-PATENT-CLASS-106-15R	c 24	N78-15180 *
US-PATENT-APPL-SN-945040	c 37	N82-24492 *	US-PATENT-CASE-368-120	c 35	N83-29651 *	US-PATENT-CLASS-106-15R	c 23	N75-14834 *
US-PATENT-APPL-SN-945041	c 43	N80-18498 *	US-PATENT-CASE-368-6	c 35	N83-29651 *	US-PATENT-CLASS-106-15	c 18	N71-14014 *
US-PATENT-APPL-SN-945043	c 33	N81-33403 *	US-PATENT-CASE-368-9	c 35	N83-29651 *	US-PATENT-CLASS-106-15	c 18	N71-15469 *
US-PATENT-APPL-SN-945044	c 54	N81-26718 *				US-PATENT-CLASS-106-18.16	c 27	N82-16238 *
US-PATENT-APPL-SN-945436	c 46	N80-24906 *	US-PATENT-CLAS-165-27	c 34	N83-34221 *	US-PATENT-CLASS-106-18.24	c 27	N82-16238 *
US-PATENT-APPL-SN-946990	c 28	N80-23471 *	US-PATENT-CLASS-361-90	c 33	N83-34190 *	US-PATENT-CLASS-106-197	c 25	N82-29370 *
US-PATENT-APPL-SN-946991	c 31	N81-27324 *				US-PATENT-CLASS-106-1	c 44	N79-31752 *
US-PATENT-APPL-SN-946992	c 45	N80-14579 *	US-PATENT-CLASS-DIG.4	c 37	N91-21543 *	US-PATENT-CLASS-106-209	c 05	N72-25120 *
US-PATENT-APPL-SN-946994	c 44	N79-31753 *				US-PATENT-CLASS-106-286	c 18	N72-22566 *
US-PATENT-APPL-SN-947000	c 28	N81-15119 *	US-PATENT-CLASS-D12-76	c 05	N75-25914 *	US-PATENT-CLASS-106-287SB	c 23	N75-14834 *
US-PATENT-APPL-SN-94952	c 14	N70-34158 *	US-PATENT-CLASS-D71-1	c 05	N74-10907 *	US-PATENT-CLASS-106-288B	c 18	N72-22566 *
US-PATENT-APPL-SN-949886	c 33	N80-18285 *				US-PATENT-CLASS-106-292	c 18	N72-17532 *
US-PATENT-APPL-SN-950876	c 37	N80-31790 *	US-PATENT-CLASS-073-801	c 26	N90-21170 *	US-PATENT-CLASS-106-292	c 27	N77-30237 *
US-PATENT-APPL-SN-950877	c 52	N81-25660 *	US-PATENT-CLASS-100-299	c 15	N72-20446 *	US-PATENT-CLASS-106-296	c 18	N71-26772 *
US-PATENT-APPL-SN-951422	c 51	N81-14605 *	US-PATENT-CLASS-100-8	c 33	N74-17928 *	US-PATENT-CLASS-106-296	c 27	N77-30237 *
US-PATENT-APPL-SN-951423	c 48	N80-18667 *	US-PATENT-CLASS-101-395	c 35	N84-22930 *	US-PATENT-CLASS-106-296	c 24	N79-14156 *
US-PATENT-APPL-SN-951828	c 37	N80-29703 *	US-PATENT-CLASS-101-407BP	c 37	N84-12491 *	US-PATENT-CLASS-106-299	c 18	N72-17532 *
US-PATENT-APPL-SN-951829	c 33	N80-18287 *	US-PATENT-CLASS-102-101	c 28	N71-26779 *	US-PATENT-CLASS-106-299	c 27	N77-30237 *
US-PATENT-APPL-SN-951830	c 28	N80-28536 *	US-PATENT-CLASS-102-103	c 20	N78-32779 *	US-PATENT-CLASS-106-306	c 24	N76-24363 *
US-PATENT-APPL-SN-95183	c 08	N73-12175 *	US-PATENT-CLASS-102-105	c 33	N72-17947 *	US-PATENT-CLASS-106-39.5	c 27	N78-19302 *
US-PATENT-APPL-SN-95189	c 74	N77-21941 *	US-PATENT-CLASS-102-105	c 33	N72-25911 *	US-PATENT-CLASS-106-39R	c 18	N73-14584 *
US-PATENT-APPL-SN-953313	c 32	N81-14187 *	US-PATENT-CLASS-102-105	c 33	N73-25952 *	US-PATENT-CLASS-106-39	c 26	N72-28762 *
US-PATENT-APPL-SN-953314	c 37	N81-14319 *	US-PATENT-CLASS-102-105	c 27	N74-27037 *	US-PATENT-CLASS-106-40	c 18	N71-22998 *
US-PATENT-APPL-SN-953389	c 74	N80-27185 *	US-PATENT-CLASS-102-105	c 24	N79-25142 *	US-PATENT-CLASS-106-43	c 27	N78-17206 *
US-PATENT-APPL-SN-953390	c 74	N80-21138 *	US-PATENT-CLASS-102-200	c 25	N91-32196 *	US-PATENT-CLASS-106-43	c 37	N81-25371 *
US-PATENT-APPL-SN-953391	c 72	N80-33186 *	US-PATENT-CLASS-102-21.6	c 46	N79-22679 *	US-PATENT-CLASS-106-46	c 26	N72-28762 *
US-PATENT-APPL-SN-956160	c 32	N80-18253 *	US-PATENT-CLASS-102-262	c 03	N91-15142 *	US-PATENT-CLASS-106-48	c 27	N75-27160 *
US-PATENT-APPL-SN-956161	c 27	N79-11215 *	US-PATENT-CLASS-102-28EB	c 28	N74-27425 *	US-PATENT-CLASS-106-48	c 27	N78-32260 *
US-PATENT-APPL-SN-956166	c 33	N81-19393 *	US-PATENT-CLASS-102-28R	c 28	N79-11231 *	US-PATENT-CLASS-106-50	c 27	N82-29452 *
US-PATENT-APPL-SN-956168	c 27	N81-25209 *	US-PATENT-CLASS-102-289	c 27	N82-24339 *	US-PATENT-CLASS-106-50	c 27	N82-29454 *
US-PATENT-APPL-SN-956529	c 35	N80-26635 *	US-PATENT-CLASS-102-34.4	c 07	N72-25171 *	US-PATENT-CLASS-106-50	c 27	N82-29455 *
US-PATENT-APPL-SN-957452	c 32	N80-24510 *	US-PATENT-CLASS-102-378	c 01	N83-35992 *	US-PATENT-CLASS-106-52	c 37	N74-21063 *
US-PATENT-APPL-SN-958573	c 25	N80-20334 *	US-PATENT-CLASS-102-378	c 37	N90-21390 *	US-PATENT-CLASS-106-52	c 27	N82-29451 *
US-PATENT-APPL-SN-958575	c 27	N80-24437 *	US-PATENT-CLASS-102-378	c 37	N91-32498 *	US-PATENT-CLASS-106-52	c 27	N82-29452 *
US-PATENT-APPL-SN-961831	c 33	N81-25299 *	US-PATENT-CLASS-102-39	c 20	N78-24275 *	US-PATENT-CLASS-106-52	c 27	N82-29454 *
US-PATENT-APPL-SN-961832	c 37	N81-24442 *	US-PATENT-CLASS-102-49.3	c 20	N77-17143 *	US-PATENT-CLASS-106-52	c 27	N82-29455 *
US-PATENT-APPL-SN-961833	c 37	N82-21587 *	US-PATENT-CLASS-102-49.5	c 31	N71-15687 *	US-PATENT-CLASS-106-54	c 27	N75-27160 *
US-PATENT-APPL-SN-964009	c 02	N80-20224 *	US-PATENT-CLASS-102-49.5	c 15	N71-22874 *	US-PATENT-CLASS-106-54	c 27	N76-22377 *
US-PATENT-APPL-SN-964754	c 33	N80-20487 *	US-PATENT-CLASS-102-49.5	c 31	N71-23008 *	US-PATENT-CLASS-106-54	c 27	N76-23426 *
US-PATENT-APPL-SN-964754	c 44	N81-29524 *	US-PATENT-CLASS-102-49.5	c 31	N73-14853 *	US-PATENT-CLASS-106-54	c 27	N78-32260 *
US-PATENT-APPL-SN-965367	c 33	N81-14221 *	US-PATENT-CLASS-102-49.7	c 28	N73-24784 *	US-PATENT-CLASS-106-54	c 27	N82-29452 *
US-PATENT-APPL-SN-965368	c 74	N81-17888 *	US-PATENT-CLASS-102-49.7	c 20	N78-24275 *	US-PATENT-CLASS-106-54	c 27	N82-29454 *
US-PATENT-APPL-SN-969755	c 05	N81-19087 *	US-PATENT-CLASS-102-49.8	c 28	N73-24784 *	US-PATENT-CLASS-106-55	c 18	N73-14584 *
US-PATENT-APPL-SN-969756	c 37	N81-14317 *	US-PATENT-CLASS-102-49	c 33	N70-36846 *	US-PATENT-CLASS-106-58	c 18	N73-14584 *
US-PATENT-APPL-SN-969757	c 24	N84-16262 *	US-PATENT-CLASS-102-49	c 28	N70-38181 *	US-PATENT-CLASS-106-63	c 18	N73-14584 *
US-PATENT-APPL-SN-969759	c 25	N82-11144 *	US-PATENT-CLASS-102-49	c 03	N70-39930 *	US-PATENT-CLASS-106-65	c 27	N78-19302 *
US-PATENT-APPL-SN-969760	c 39	N81-25400 *	US-PATENT-CLASS-102-49	c 15	N70-41679 *	US-PATENT-CLASS-106-73.5	c 27	N78-19302 *
US-PATENT-APPL-SN-969761	c 32	N82-12297 *	US-PATENT-CLASS-102-49	c 28	N70-41967 *	US-PATENT-CLASS-106-74	c 18	N69-39979 *
US-PATENT-APPL-SN-969762	c 33	N82-29539 *	US-PATENT-CLASS-102-49	c 31	N71-10582 *	US-PATENT-CLASS-106-74	c 24	N79-31347 *
US-PATENT-APPL-SN-971112	c 21	N70-34539 *	US-PATENT-CLASS-102-49	c 15	N71-13789 *	US-PATENT-CLASS-106-84	c 18	N71-24183 *
US-PATENT-APPL-SN-971473	c 23	N81-29160 *	US-PATENT-CLASS-102-49	c 31	N71-15692 *	US-PATENT-CLASS-106-84	c 18	N71-24184 *
US-PATENT-APPL-SN-971474	c 20	N82-18314 *	US-PATENT-CLASS-102-49	c 31	N71-17730 *	US-PATENT-CLASS-106-84	c 18	N72-22566 *
US-PATENT-APPL-SN-971475	c 27	N81-24257 *	US-PATENT-CLASS-102-50.4	c 15	N82-24272 *	US-PATENT-CLASS-106-84	c 18	N72-23581 *
US-PATENT-APPL-SN-971596	c 27	N80-32516 *	US-PATENT-CLASS-102-50	c 31	N71-24750 *	US-PATENT-CLASS-106-84	c 24	N79-14156 *
US-PATENT-APPL-SN-972252	c 35	N81-33448 *	US-PATENT-CLASS-102-56R	c 02	N81-14968 *	US-PATENT-CLASS-106-84	c 24	N79-31347 *
US-PATENT-APPL-SN-97343	c 10	N72-27246 *	US-PATENT-CLASS-102-70.2A	c 28	N74-27425 *	US-PATENT-CLASS-106-88	c 18	N71-16124 *
US-PATENT-APPL-SN-974292	c 26	N80-23419 *	US-PATENT-CLASS-102-70.2R	c 19	N74-15089 *	US-PATENT-CLASS-108-136	c 09	N75-12968 *
US-PATENT-APPL-SN-974471	c 32	N81-14185 *	US-PATENT-CLASS-102-70.2	c 09	N71-18599 *	US-PATENT-CLASS-108-3	c 54	N88-24163 *
US-PATENT-APPL-SN-974472	c 37	N81-15363 *	US-PATENT-CLASS-102-70.2R	c 28	N74-27425 *	US-PATENT-CLASS-108-7	c 54	N88-24163 *
US-PATENT-APPL-SN-974473	c 60	N81-27814 *	US-PATENT-CLASS-102-70R	c 20	N78-24275 *	US-PATENT-CLASS-109-49.5	c 31	N81-19343 *
US-PATENT-APPL-SN-974474	c 25	N81-19242 *	US-PATENT-CLASS-102-90	c 15	N74-27360 *	US-PATENT-CLASS-109-58.5	c 31	N81-19343 *
US-PATENT-APPL-SN-974475	c 33	N81-17349 *	US-PATENT-CLASS-102-92.1	c 02	N81-14968 *	US-PATENT-CLASS-110-165R	c 31	N91-15423 *
US-PATENT-APPL-SN-974476	c 52	N81-14613 *	US-PATENT-CLASS-102-95	c 11	N73-32152 *	US-PATENT-CLASS-110-171	c 31	N91-15423 *
US-PATENT-APPL-SN-97472	c 14	N73-28487 *	US-PATENT-CLASS-102-99	c 28	N77-10213 *	US-PATENT-CLASS-110-186	c 25	N84-16276 *
US-PATENT-APPL-SN-97829	c 06	N73-13129 *	US-PATENT-CLASS-103.5R	c 04	N73-27052 *	US-PATENT-CLASS-110-218	c 31	N81-15154 *
US-PATENT-APPL-SN-98517	c 09	N72-25250 *	US-PATENT-CLASS-103-1	c 26	N71-21824 *	US-PATENT-CLASS-110-229	c 31	N81-15154 *
US-PATENT-APPL-SN-98640	c 09	N72-25253 *	US-PATENT-CLASS-103-37	c 28	N71-14058 *	US-PATENT-CLASS-110-232	c 31	N81-15154 *
US-PATENT-APPL-SN-98772	c 08	N73-12176 *	US-PATENT-CLASS-103-48	c 15	N71-24042 *	US-PATENT-CLASS-110-234	c 25	N82-11144 *
US-PATENT-APPL-SN-98773	c 15	N72-22486 *	US-PATENT-CLASS-104-DIG.4	c 44	N84-23019 *	US-PATENT-CLASS-110-245	c 25	N82-11144 *
US-PATENT-APPL-SN-98774	c 14	N73-19419 *	US-PATENT-CLASS-104-138R	c 85	N74-34672 *	US-PATENT-CLASS-110-255	c 25	N82-11144 *
US-PATENT-APPL-SN-98798	c 09	N73-13209 *	US-PATENT-CLASS-104-139	c 05	N71-28619 *	US-PATENT-CLASS-110-259	c 31	N91-15423 *
US-PATENT-APPL-SN-99174	c 14	N72-33377 *	US-PATENT-CLASS-104-172.1	c 18	N88-26398 *	US-PATENT-CLASS-110-262	c 25	N84-16276 *
US-PATENT-APPL-SN-99175	c 09	N72-25258 *	US-PATENT-CLASS-104-1	c 05	N71-28619 *	US-PATENT-CLASS-110-263	c 25	N84-16276 *
US-PATENT-APPL-SN-99198	c 31	N73-32749 *	US-PATENT-CLASS-104-23FS	c 85	N74-34672 *	US-PATENT-CLASS-110-265	c 25	N84-16276 *
US-PATENT-APPL-SN-99201	c 15	N73-25512 *	US-PATENT-CLASS-104-281	c 37	N85-20337 *	US-PATENT-CLASS-110-266	c 25	N82-11144 *
US-PATENT-APPL-SN-99201	c 37	N74-20063 *	US-PATENT-CLASS-104-282	c 37	N83-32067 *	US-PATENT-CLASS-110-343	c 31	N81-15154 *
US-PATENT-APPL-SN-99524	c 06	N72-27144 *	US-PATENT-CLASS-104-284	c 37	N85-20337 *	US-PATENT-CLASS-110-347	c 31	N81-15154 *
US-PATENT-APPL-SN-99901	c 37	N74-10474 *	US-PATENT-CLASS-104-290	c 37	N83-32067 *	US-PATENT-CLASS-112-402	c 18	N71-26285 *
US-PATENT-APPL-SN-99903	c 11	N73-12265 *	US-PATENT-CLASS-104-35	c 18	N88-26398 *	US-PATENT-CLASS-112-440	c 24	N91-31236 *
			US-PATENT-CLASS-104-49	c 18	N88-26398 *	US-PATENT-CLASS-113-116	c 15	N71-15597 *
US-PATENT-CASE-165-104.25	c 34	N87-28867 *	US-PATENT-CLASS-104-83	c 37	N82-21587 *	US-PATENT-CLASS-114-112	c 18	N90-19278 *
US-PATENT-CASE-165-104.26	c 34	N87-28867 *	US-PATENT-CLASS-105-1A	c 37	N82-21587 *	US-PATENT-CLASS-114-122	c 02	N73-26006 *
US-PATENT-CASE-165-13	c 34	N87-28867 *	US-PATENT-CLASS-105-124	c 37	N91-32514 *	US-PATENT-CLASS-114-122	c 34	N91-25380 *
US-PATENT-CASE-165-1	c 34	N87-28867 *	US-PATENT-CLASS-105-141	c 37	N91-32514 *	US-PATENT-CLASS-114-125	c 34	N91-25380 *
US-PATENT-CASE-165-32	c 34	N87-28867 *	US-PATENT-CLASS-105-142	c 37	N91-32514 *	US-PATENT-CLASS-114-16.6	c 37	N76-22540 *
US-PATENT-CASE-165-41	c 34	N87-28867 *	US-PATENT-CLASS-105-161	c 43	N79-26439 *	US-PATENT-CLASS-114-201R	c 18	N90-19278 *
US-PATENT-CASE-179-146-R	c 05	N83-27975 *	US-PATENT-CLASS-105-171	c 37	N82-21587 *	US-PATENT-CLASS-114-66.5	c 12	N70-33305 *
US-PATENT-CASE-179-179	c 05	N83-27975 *	US-PATENT-CLASS-105-180	c 37	N82-21587 *	US-PATENT-CLASS-114-67A	c 34	N91-14562 *
US-PATENT-CASE-244-121	c 05	N83-19737 *	US-PATENT-CLASS-105-2R	c 85	N82-32388 *	US-PATENT-CLASS-114-67R	c 02	N88-14071 *
US-PATENT-CASE-244-129.4	c 05	N83-19737 *	US-PATENT-CLASS-105-218R	c 37	N82-21587 *	US-PATENT-CLASS-115-103.5	c 51	N75-13502 *
US-PATENT-CASE-292-254	c 05	N83-19737 *	US-PATENT-CLASS-105-87	c 37	N91-32514 *	US-PATENT-CLASS-116-DIG.43	c 02	N89-12551 *
US-PATENT-CASE-356-129	c 36	N83-29680 *	US-PATENT-CLASS-106-1.2	c 44	N79-31752 *	US-PATENT-CLASS-116-114.5	c 35	N75-25122 *

US-PATENT-CLASS-116-114AH	c 14	N72-25411 *	US-PATENT-CLASS-118-320	c 37	N82-24492 *	US-PATENT-CLASS-125-15	c 37	N85-21650 *
US-PATENT-CLASS-116-114AH	c 35	N75-33367 *	US-PATENT-CLASS-118-405	c 76	N91-15898 *	US-PATENT-CLASS-125-1	c 46	N74-23069 *
US-PATENT-CLASS-116-117	c 14	N70-42074 *	US-PATENT-CLASS-118-407	c 76	N91-15898 *	US-PATENT-CLASS-125-20	c 31	N83-27058 *
US-PATENT-CLASS-116-201	c 02	N92-21588 *	US-PATENT-CLASS-118-416	c 24	N92-16025 *	US-PATENT-CLASS-125-21	c 37	N80-29703 *
US-PATENT-CLASS-116-207	c 02	N92-21588 *	US-PATENT-CLASS-118-419	c 76	N91-15898 *	US-PATENT-CLASS-125-23R	c 76	N80-18951 *
US-PATENT-CLASS-116-265	c 02	N89-12551 *	US-PATENT-CLASS-118-423	c 37	N82-12441 *	US-PATENT-CLASS-125-23R	c 37	N82-32730 *
US-PATENT-CLASS-117-104	c 18	N71-26100 *	US-PATENT-CLASS-118-428	c 76	N91-15898 *	US-PATENT-CLASS-125-3	c 46	N74-23069 *
US-PATENT-CLASS-117-105.2	c 37	N74-11301 *	US-PATENT-CLASS-118-43	c 25	N75-29192 *	US-PATENT-CLASS-126-DIG.1	c 44	N85-30474 *
US-PATENT-CLASS-117-105.2	c 24	N75-33181 *	US-PATENT-CLASS-118-48	c 25	N75-26043 *	US-PATENT-CLASS-126-263	c 44	N77-32581 *
US-PATENT-CLASS-117-105.5	c 15	N73-32360 *	US-PATENT-CLASS-118-49.1	c 15	N72-32487 *	US-PATENT-CLASS-126-263	c 44	N78-17460 *
US-PATENT-CLASS-117-105	c 15	N73-32360 *	US-PATENT-CLASS-118-49.1	c 31	N75-12161 *	US-PATENT-CLASS-126-263	c 44	N80-20808 *
US-PATENT-CLASS-117-106A	c 70	N74-13436 *	US-PATENT-CLASS-118-49.1	c 25	N75-26043 *	US-PATENT-CLASS-126-263	c 35	N85-29214 *
US-PATENT-CLASS-117-106A	c 37	N75-15992 *	US-PATENT-CLASS-118-49.5	c 09	N71-26701 *	US-PATENT-CLASS-126-270	c 09	N70-40234 *
US-PATENT-CLASS-117-106A	c 25	N75-26043 *	US-PATENT-CLASS-118-49	c 25	N79-28253 *	US-PATENT-CLASS-126-270	c 03	N70-41580 *
US-PATENT-CLASS-117-106	c 33	N71-14032 *	US-PATENT-CLASS-118-50.1	c 71	N84-16940 *	US-PATENT-CLASS-126-270	c 34	N74-23039 *
US-PATENT-CLASS-117-107.2	c 25	N75-26043 *	US-PATENT-CLASS-118-50.1	c 36	N84-22944 *	US-PATENT-CLASS-126-270	c 44	N76-14595 *
US-PATENT-CLASS-117-107	c 15	N72-25447 *	US-PATENT-CLASS-118-500	c 37	N78-17383 *	US-PATENT-CLASS-126-270	c 44	N76-23675 *
US-PATENT-CLASS-117-107	c 76	N79-16678 *	US-PATENT-CLASS-118-500	c 37	N82-12441 *	US-PATENT-CLASS-126-270	c 44	N76-24696 *
US-PATENT-CLASS-117-119	c 18	N71-16105 *	US-PATENT-CLASS-118-500	c 37	N82-24492 *	US-PATENT-CLASS-126-270	c 35	N77-20401 *
US-PATENT-CLASS-117-119	c 76	N79-16678 *	US-PATENT-CLASS-118-500	c 71	N84-16940 *	US-PATENT-CLASS-126-270	c 44	N77-32582 *
US-PATENT-CLASS-117-124G	c 15	N72-25452 *	US-PATENT-CLASS-118-503	c 37	N82-24492 *	US-PATENT-CLASS-126-270	c 44	N78-15560 *
US-PATENT-CLASS-117-124F	c 23	N75-14834 *	US-PATENT-CLASS-118-505	c 37	N82-24492 *	US-PATENT-CLASS-126-270	c 44	N78-19599 *
US-PATENT-CLASS-117-126GM	c 37	N75-26371 *	US-PATENT-CLASS-118-50	c 37	N78-17383 *	US-PATENT-CLASS-126-270	c 44	N78-31526 *
US-PATENT-CLASS-117-126GR	c 27	N74-23125 *	US-PATENT-CLASS-118-50	c 37	N81-33482 *	US-PATENT-CLASS-126-270	c 44	N79-11471 *
US-PATENT-CLASS-117-126R	c 37	N75-26371 *	US-PATENT-CLASS-118-50	c 71	N84-16940 *	US-PATENT-CLASS-126-270	c 44	N79-14526 *
US-PATENT-CLASS-117-129	c 37	N74-21063 *	US-PATENT-CLASS-118-52	c 37	N81-33482 *	US-PATENT-CLASS-126-270	c 44	N79-23481 *
US-PATENT-CLASS-117-129	c 27	N75-27160 *	US-PATENT-CLASS-118-57	c 71	N84-16940 *	US-PATENT-CLASS-126-270	c 44	N79-24432 *
US-PATENT-CLASS-117-130R	c 15	N73-32360 *	US-PATENT-CLASS-118-624	c 36	N84-22944 *	US-PATENT-CLASS-126-271	c 44	N75-32581 *
US-PATENT-CLASS-117-132B	c 27	N74-23125 *	US-PATENT-CLASS-118-62	c 71	N84-16940 *	US-PATENT-CLASS-126-271	c 44	N76-14602 *
US-PATENT-CLASS-117-132	c 06	N72-25150 *	US-PATENT-CLASS-118-641	c 36	N84-22944 *	US-PATENT-CLASS-126-271	c 44	N76-22657 *
US-PATENT-CLASS-117-135.5	c 23	N75-14834 *	US-PATENT-CLASS-118-6	c 51	N77-27677 *	US-PATENT-CLASS-126-271	c 44	N76-24696 *
US-PATENT-CLASS-117-138.8R	c 15	N73-32360 *	US-PATENT-CLASS-118-7	c 51	N77-27677 *	US-PATENT-CLASS-126-271	c 35	N77-20401 *
US-PATENT-CLASS-117-151	c 15	N73-32360 *	US-PATENT-CLASS-118-9	c 51	N77-27677 *	US-PATENT-CLASS-126-271	c 44	N77-32582 *
US-PATENT-CLASS-117-152	c 15	N72-25452 *	US-PATENT-CLASS-119-15	c 11	N71-22875 *	US-PATENT-CLASS-126-271	c 44	N78-10554 *
US-PATENT-CLASS-117-16R	c 15	N72-25452 *	US-PATENT-CLASS-119-17	c 51	N81-32829 *	US-PATENT-CLASS-126-271	c 44	N78-17460 *
US-PATENT-CLASS-117-160R	c 15	N73-32360 *	US-PATENT-CLASS-119-18	c 51	N81-32829 *	US-PATENT-CLASS-126-271	c 44	N78-31525 *
US-PATENT-CLASS-117-161P	c 06	N73-27980 *	US-PATENT-CLASS-119-29	c 51	N78-27733 *	US-PATENT-CLASS-126-271	c 44	N78-31526 *
US-PATENT-CLASS-117-161UA	c 25	N75-12087 *	US-PATENT-CLASS-119-51.11	c 35	N78-19466 *	US-PATENT-CLASS-126-271	c 44	N79-11471 *
US-PATENT-CLASS-117-161UN	c 06	N73-27980 *	US-PATENT-CLASS-119-51.13	c 51	N74-15778 *	US-PATENT-CLASS-126-271	c 44	N79-14526 *
US-PATENT-CLASS-117-161UN	c 27	N74-23125 *	US-PATENT-CLASS-119-51.5	c 51	N74-15778 *	US-PATENT-CLASS-126-271	c 44	N79-14529 *
US-PATENT-CLASS-117-161UN	c 25	N75-12087 *	US-PATENT-CLASS-119-51R	c 51	N74-15778 *	US-PATENT-CLASS-126-271	c 44	N79-18443 *
US-PATENT-CLASS-117-161UZ	c 25	N75-12087 *	US-PATENT-CLASS-119-52AF	c 51	N74-15778 *	US-PATENT-CLASS-126-271	c 44	N79-23481 *
US-PATENT-CLASS-117-161	c 06	N72-25150 *	US-PATENT-CLASS-119-54	c 51	N74-15778 *	US-PATENT-CLASS-126-271	c 44	N79-24433 *
US-PATENT-CLASS-117-2R	c 32	N74-27612 *	US-PATENT-CLASS-119-72.5	c 35	N78-19466 *	US-PATENT-CLASS-126-400	c 44	N78-15560 *
US-PATENT-CLASS-117-200	c 09	N72-25259 *	US-PATENT-CLASS-121-38	c 05	N71-28619 *	US-PATENT-CLASS-126-400	c 44	N79-24433 *
US-PATENT-CLASS-117-201	c 15	N69-21460 *	US-PATENT-CLASS-121-38	c 15	N70-35409 *	US-PATENT-CLASS-126-400	c 44	N85-30474 *
US-PATENT-CLASS-117-201	c 18	N71-16046 *	US-PATENT-CLASS-121-38	c 02	N71-29128 *	US-PATENT-CLASS-126-415	c 44	N84-34792 *
US-PATENT-CLASS-117-201	c 03	N72-24037 *	US-PATENT-CLASS-122-32	c 33	N72-20915 *	US-PATENT-CLASS-126-415	c 44	N85-30474 *
US-PATENT-CLASS-117-201	c 25	N75-26043 *	US-PATENT-CLASS-122-366	c 34	N85-29180 *	US-PATENT-CLASS-126-417	c 44	N80-16452 *
US-PATENT-CLASS-117-211	c 15	N72-25447 *	US-PATENT-CLASS-122-366	c 34	N86-27593 *	US-PATENT-CLASS-126-417	c 34	N84-22903 *
US-PATENT-CLASS-117-212	c 09	N71-20705 *	US-PATENT-CLASS-122-366	c 34	N88-29133 *	US-PATENT-CLASS-126-418	c 44	N84-28204 *
US-PATENT-CLASS-117-212	c 15	N71-29032 *	US-PATENT-CLASS-122-366	c 34	N89-14392 *	US-PATENT-CLASS-126-418	c 44	N86-27706 *
US-PATENT-CLASS-117-212	c 26	N72-28762 *	US-PATENT-CLASS-122-366	c 27	N90-23541 *	US-PATENT-CLASS-126-419	c 44	N80-20810 *
US-PATENT-CLASS-117-217	c 15	N72-25447 *	US-PATENT-CLASS-122-366	c 31	N90-23587 *	US-PATENT-CLASS-126-419	c 44	N81-17518 *
US-PATENT-CLASS-117-217	c 26	N72-28762 *	US-PATENT-CLASS-122-4D	c 25	N82-11144 *	US-PATENT-CLASS-126-419	c 44	N84-28203 *
US-PATENT-CLASS-117-21	c 18	N69-39895 *	US-PATENT-CLASS-123-DIG.12	c 37	N76-18457 *	US-PATENT-CLASS-126-419	c 44	N85-30474 *
US-PATENT-CLASS-117-224	c 15	N71-28582 *	US-PATENT-CLASS-123-DIG.12	c 44	N78-33526 *	US-PATENT-CLASS-126-419	c 44	N86-27706 *
US-PATENT-CLASS-117-228	c 06	N73-27980 *	US-PATENT-CLASS-123-DIG.12	c 28	N80-10374 *	US-PATENT-CLASS-126-422	c 44	N82-18686 *
US-PATENT-CLASS-117-234	c 76	N79-16678 *	US-PATENT-CLASS-123-DIG.8	c 37	N77-31497 *	US-PATENT-CLASS-126-423	c 34	N88-23958 *
US-PATENT-CLASS-117-235	c 76	N79-16678 *	US-PATENT-CLASS-123-1A	c 44	N76-29700 *	US-PATENT-CLASS-126-425	c 44	N88-14492 *
US-PATENT-CLASS-117-237	c 76	N79-16678 *	US-PATENT-CLASS-123-1A	c 44	N78-33526 *	US-PATENT-CLASS-126-429	c 44	N82-18686 *
US-PATENT-CLASS-117-239	c 76	N79-16678 *	US-PATENT-CLASS-123-102	c 11	N72-20244 *	US-PATENT-CLASS-126-430	c 44	N82-18686 *
US-PATENT-CLASS-117-240	c 76	N79-16678 *	US-PATENT-CLASS-123-119A	c 37	N77-31497 *	US-PATENT-CLASS-126-434	c 44	N80-20810 *
US-PATENT-CLASS-117-33.3	c 70	N74-13436 *	US-PATENT-CLASS-123-119E	c 37	N76-18457 *	US-PATENT-CLASS-126-437	c 44	N80-20810 *
US-PATENT-CLASS-117-35R	c 06	N73-13128 *	US-PATENT-CLASS-123-120	c 37	N76-18457 *	US-PATENT-CLASS-126-438	c 44	N80-14473 *
US-PATENT-CLASS-117-35	c 32	N79-19186 *	US-PATENT-CLASS-123-121	c 37	N76-18457 *	US-PATENT-CLASS-126-438	c 44	N82-16475 *
US-PATENT-CLASS-117-37	c 15	N72-25452 *	US-PATENT-CLASS-123-122AB	c 28	N72-22772 *	US-PATENT-CLASS-126-438	c 44	N84-28203 *
US-PATENT-CLASS-117-38	c 24	N75-33181 *	US-PATENT-CLASS-123-122AB	c 37	N77-31497 *	US-PATENT-CLASS-126-438	c 44	N84-28204 *
US-PATENT-CLASS-117-43	c 31	N79-21227 *	US-PATENT-CLASS-123-122E	c 07	N77-23106 *	US-PATENT-CLASS-126-438	c 44	N86-27706 *
US-PATENT-CLASS-117-45	c 74	N74-20008 *	US-PATENT-CLASS-123-122E	c 37	N78-10467 *	US-PATENT-CLASS-126-440	c 44	N84-28204 *
US-PATENT-CLASS-117-46FS	c 24	N75-33181 *	US-PATENT-CLASS-123-148CB	c 33	N77-28385 *	US-PATENT-CLASS-126-442	c 44	N80-14473 *
US-PATENT-CLASS-117-46	c 15	N71-16077 *	US-PATENT-CLASS-123-148DC	c 37	N79-11405 *	US-PATENT-CLASS-126-443	c 35	N89-12048 *
US-PATENT-CLASS-117-47R	c 15	N72-25452 *	US-PATENT-CLASS-123-148E	c 33	N77-28385 *	US-PATENT-CLASS-126-451	c 44	N84-28203 *
US-PATENT-CLASS-117-50	c 15	N71-15610 *	US-PATENT-CLASS-123-148E	c 37	N79-11405 *	US-PATENT-CLASS-126-900	c 44	N85-30474 *
US-PATENT-CLASS-117-62	c 15	N72-25447 *	US-PATENT-CLASS-123-179R	c 28	N80-10374 *	US-PATENT-CLASS-126-901	c 44	N80-16452 *
US-PATENT-CLASS-117-62	c 15	N72-25452 *	US-PATENT-CLASS-123-193P	c 37	N88-23981 *	US-PATENT-CLASS-126-901	c 44	N83-34449 *
US-PATENT-CLASS-117-65.2	c 18	N71-10772 *	US-PATENT-CLASS-123-193P	c 37	N90-22042 *	US-PATENT-CLASS-126-901	c 35	N89-12048 *
US-PATENT-CLASS-117-66	c 15	N73-32360 *	US-PATENT-CLASS-123-197R	c 37	N83-36483 *	US-PATENT-CLASS-126-91A	c 25	N79-11151 *
US-PATENT-CLASS-117-69	c 18	N70-36400 *	US-PATENT-CLASS-123-37	c 37	N77-31497 *	US-PATENT-CLASS-128-2.06E	c 05	N75-24716 *
US-PATENT-CLASS-117-69	c 15	N71-16075 *	US-PATENT-CLASS-123-3	c 44	N76-18642 *	US-PATENT-CLASS-128-2.07	c 52	N79-21750 *
US-PATENT-CLASS-117-6	c 14	N71-20461 *	US-PATENT-CLASS-123-3	c 44	N76-29700 *	US-PATENT-CLASS-128-DIG.12	c 37	N77-28487 *
US-PATENT-CLASS-117-6	c 27	N81-15104 *	US-PATENT-CLASS-123-3	c 44	N77-10636 *	US-PATENT-CLASS-128-DIG.12	c 51	N81-14605 *
US-PATENT-CLASS-117-72	c 35	N75-25122 *	US-PATENT-CLASS-123-3	c 37	N77-31497 *	US-PATENT-CLASS-128-DIG.13	c 52	N83-27577 *
US-PATENT-CLASS-117-8.5	c 24	N75-33181 *	US-PATENT-CLASS-123-3	c 44	N78-33526 *	US-PATENT-CLASS-128-DIG.16	c 51	N81-14605 *
US-PATENT-CLASS-117-93.16D	c 25	N75-12087 *	US-PATENT-CLASS-123-3	c 28	N80-10374 *	US-PATENT-CLASS-128-DIG.20	c 52	N76-19785 *
US-PATENT-CLASS-117-93.16D	c 15	N72-25447 *	US-PATENT-CLASS-123-41.33	c 07	N77-23106 *	US-PATENT-CLASS-128-DIG.20	c 37	N81-17433 *
US-PATENT-CLASS-117-93.3	c 15	N72-25452 *	US-PATENT-CLASS-123-41.33	c 37	N78-10467 *	US-PATENT-CLASS-128-DIG.25	c 52	N81-25660 *
US-PATENT-CLASS-117-93.3	c 37	N75-15992 *	US-PATENT-CLASS-123-59E	c 37	N77-31497 *	US-PATENT-CLASS-128-DIG.25	c 52	N84-11744 *
US-PATENT-CLASS-117-95	c 24	N74-19769 *	US-PATENT-CLASS-123-78E	c 37	N83-36483 *	US-PATENT-CLASS-128-DIG.26	c 51	N81-14605 *
US-PATENT-CLASS-117-95	c 36	N75-15029 *	US-PATENT-CLASS-123-89A	c 37	N76-18457 *	US-PATENT-CLASS-128-DIG.4	c 05	N72-27103 *
US-PATENT-CLASS-117-97	c 36	N75-15029 *	US-PATENT-CLASS-124-11R	c 75	N76-17951 *	US-PATENT-CLASS-128-DIG.4	c 05	N75-24716 *
US-PATENT-CLASS-118-DIG.5	c 24	N92-10070 *	US-PATENT-CLASS-124-1	c 75	N76-17951 *	US-PATENT-CLASS-128-DIG.4	c 35	N76-24525 *
US-PATENT-CLASS-118-11	c 15	N71-17647 *	US-PATENT-CLASS-124-3	c 14	N92-15081 *	US-PATENT-CLASS-128-DIG.4	c 52	N77-28717 *
US-PATENT-CLASS-118-300	c 71	N84-16940 *	US-PATENT-CLASS-124-56	c 18	N86-20469 *	US-PATENT-CLASS-128-DIG.6	c 51	N81-14605 *
US-PATENT-CLASS-118-308	c 17	N71-24911 *	US-PATENT-CLASS-124-6	c 09	N77-19076 *	US-PATENT-CLASS-128-DIG.9	c 52	N80-16725 *
US-PATENT-CLASS-118-313	c 51	N77-27677 *	US-PATENT-CLASS-125-13R	c 37	N85-21650 *	US-PATENT-CLASS-128-DIG.9	c 51	N81-14605 *

REPORT NUMBER INDEX

US-PATENT-CLASS-136-24

US-PATENT-CLASS-128-1.2	c 52	N82-22875 *	US-PATENT-CLASS-128-214D	c 52	N79-14749 *	US-PATENT-CLASS-128-80F	c 52	N81-25661 *
US-PATENT-CLASS-128-1A	c 05	N73-32012 *	US-PATENT-CLASS-128-214E	c 52	N74-22771 *	US-PATENT-CLASS-128-80A	c 52	N82-33996 *
US-PATENT-CLASS-128-1A	c 54	N84-16803 *	US-PATENT-CLASS-128-214F	c 37	N77-28487 *	US-PATENT-CLASS-128-89R	c 52	N81-25662 *
US-PATENT-CLASS-128-1R	c 52	N77-25772 *	US-PATENT-CLASS-128-230	c 52	N75-33640 *	US-PATENT-CLASS-128-903	c 52	N80-18691 *
US-PATENT-CLASS-128-1R	c 52	N77-28716 *	US-PATENT-CLASS-128-23A	c 51	N81-14605 *	US-PATENT-CLASS-128-92C	c 27	N78-17215 *
US-PATENT-CLASS-128-1R	c 52	N81-25660 *	US-PATENT-CLASS-128-24-A	c 52	N84-34913 *	US-PATENT-CLASS-128-92G	c 27	N78-17215 *
US-PATENT-CLASS-128-1R	c 52	N84-11744 *	US-PATENT-CLASS-128-24A	c 05	N73-27062 *	US-PATENT-CLASS-129-16.7	c 08	N71-15908 *
US-PATENT-CLASS-128-142.2	c 54	N76-24900 *	US-PATENT-CLASS-128-24A	c 54	N75-27760 *	US-PATENT-CLASS-13-20	c 11	N72-23215 *
US-PATENT-CLASS-128-142.5	c 05	N71-11190 *	US-PATENT-CLASS-128-24	c 05	N71-24738 *	US-PATENT-CLASS-13-20	c 12	N79-26075 *
US-PATENT-CLASS-128-142.5	c 05	N71-11203 *	US-PATENT-CLASS-128-25R	c 37	N74-18127 *	US-PATENT-CLASS-13-22	c 12	N79-26075 *
US-PATENT-CLASS-128-142.5	c 05	N71-17599 *	US-PATENT-CLASS-128-25	c 05	N71-24738 *	US-PATENT-CLASS-13-24	c 12	N79-26075 *
US-PATENT-CLASS-128-142.5	c 05	N72-20096 *	US-PATENT-CLASS-128-26	c 52	N76-19785 *	US-PATENT-CLASS-13-26	c 33	N71-15625 *
US-PATENT-CLASS-128-142.5	c 05	N73-25125 *	US-PATENT-CLASS-128-272	c 15	N71-24835 *	US-PATENT-CLASS-13-26	c 14	N71-23267 *
US-PATENT-CLASS-128-142.7	c 54	N78-32721 *	US-PATENT-CLASS-128-272	c 52	N79-14749 *	US-PATENT-CLASS-13-31	c 11	N72-23215 *
US-PATENT-CLASS-128-142R	c 54	N80-10799 *	US-PATENT-CLASS-128-275	c 15	N71-24835 *	US-PATENT-CLASS-13-31	c 31	N74-27900 *
US-PATENT-CLASS-128-145.8	c 54	N75-27761 *	US-PATENT-CLASS-128-275	c 52	N81-29763 *	US-PATENT-CLASS-13-35	c 33	N71-24145 *
US-PATENT-CLASS-128-15R	c 54	N84-16803 *	US-PATENT-CLASS-128-276	c 52	N80-14684 *	US-PATENT-CLASS-134-137	c 37	N82-12441 *
US-PATENT-CLASS-128-191R	c 25	N74-12813 *	US-PATENT-CLASS-128-276	c 52	N80-18690 *	US-PATENT-CLASS-134-166C	c 37	N87-17035 *
US-PATENT-CLASS-128-191R	c 54	N80-10799 *	US-PATENT-CLASS-128-280	c 24	N82-29362 *	US-PATENT-CLASS-134-17	c 43	N81-26509 *
US-PATENT-CLASS-128-1	c 05	N70-41819 *	US-PATENT-CLASS-128-283	c 05	N69-23192 *	US-PATENT-CLASS-134-21	c 37	N76-18456 *
US-PATENT-CLASS-128-1	c 05	N71-20268 *	US-PATENT-CLASS-128-283	c 24	N82-29362 *	US-PATENT-CLASS-134-37	c 37	N76-18456 *
US-PATENT-CLASS-128-2.05A	c 52	N74-26626 *	US-PATENT-CLASS-128-284	c 24	N82-29362 *	US-PATENT-CLASS-134-37	c 37	N85-21652 *
US-PATENT-CLASS-128-2.05A	c 54	N75-13531 *	US-PATENT-CLASS-128-285	c 24	N82-29362 *	US-PATENT-CLASS-134-93	c 37	N87-17035 *
US-PATENT-CLASS-128-2.05E	c 52	N74-27566 *	US-PATENT-CLASS-128-288	c 24	N82-29362 *	US-PATENT-CLASS-135-1	c 32	N70-36536 *
US-PATENT-CLASS-128-2.05E	c 52	N76-29896 *	US-PATENT-CLASS-128-291	c 24	N82-29362 *	US-PATENT-CLASS-135-903	c 37	N87-17036 *
US-PATENT-CLASS-128-2.05F	c 14	N73-32326 *	US-PATENT-CLASS-128-295	c 05	N72-22093 *	US-PATENT-CLASS-136-100R	c 03	N72-20034 *
US-PATENT-CLASS-128-2.05P	c 54	N75-13531 *	US-PATENT-CLASS-128-295	c 52	N81-24711 *	US-PATENT-CLASS-136-114	c 44	N76-14601 *
US-PATENT-CLASS-128-2.05R	c 05	N73-27941 *	US-PATENT-CLASS-128-295	c 52	N81-28740 *	US-PATENT-CLASS-136-132	c 03	N71-11053 *
US-PATENT-CLASS-128-2.05R	c 52	N76-29896 *	US-PATENT-CLASS-128-296	c 24	N82-29362 *	US-PATENT-CLASS-136-132	c 03	N71-22974 *
US-PATENT-CLASS-128-2.05R	c 52	N79-10724 *	US-PATENT-CLASS-128-299	c 05	N70-39922 *	US-PATENT-CLASS-136-133	c 15	N69-24320 *
US-PATENT-CLASS-128-2.05S	c 52	N74-26626 *	US-PATENT-CLASS-128-2	c 05	N73-27062 *	US-PATENT-CLASS-136-133	c 03	N71-23006 *
US-PATENT-CLASS-128-2.05T	c 52	N74-12778 *	US-PATENT-CLASS-128-303B	c 52	N83-25346 *	US-PATENT-CLASS-136-133	c 03	N72-15986 *
US-PATENT-CLASS-128-2.05V	c 35	N76-24525 *	US-PATENT-CLASS-128-303R	c 52	N77-28716 *	US-PATENT-CLASS-136-135	c 03	N72-15986 *
US-PATENT-CLASS-128-2.05Z	c 54	N75-27760 *	US-PATENT-CLASS-128-305	c 05	N73-27062 *	US-PATENT-CLASS-136-143	c 44	N76-29699 *
US-PATENT-CLASS-128-2.05Z	c 52	N79-18580 *	US-PATENT-CLASS-128-305	c 52	N75-33640 *	US-PATENT-CLASS-136-146	c 03	N69-21337 *
US-PATENT-CLASS-128-2.05	c 05	N70-41329 *	US-PATENT-CLASS-128-305	c 52	N78-14773 *	US-PATENT-CLASS-136-146	c 24	N76-14204 *
US-PATENT-CLASS-128-2.05	c 04	N71-23185 *	US-PATENT-CLASS-128-325	c 52	N84-28388 *	US-PATENT-CLASS-136-148	c 24	N76-14204 *
US-PATENT-CLASS-128-2.05	c 05	N71-27234 *	US-PATENT-CLASS-128-327	c 52	N82-11770 *	US-PATENT-CLASS-136-148	c 44	N82-24645 *
US-PATENT-CLASS-128-2.06B	c 05	N75-24716 *	US-PATENT-CLASS-128-328	c 52	N84-34913 *	US-PATENT-CLASS-136-162	c 44	N76-14601 *
US-PATENT-CLASS-128-2.06E	c 52	N76-29896 *	US-PATENT-CLASS-128-329R	c 52	N79-27836 *	US-PATENT-CLASS-136-166	c 03	N71-23336 *
US-PATENT-CLASS-128-2.06F	c 52	N74-12778 *	US-PATENT-CLASS-128-346	c 52	N81-25660 *	US-PATENT-CLASS-136-166	c 03	N72-20032 *
US-PATENT-CLASS-128-2.06R	c 05	N73-27941 *	US-PATENT-CLASS-128-346	c 52	N84-11744 *	US-PATENT-CLASS-136-170	c 03	N71-11051 *
US-PATENT-CLASS-128-2.06R	c 52	N76-14757 *	US-PATENT-CLASS-128-346	c 52	N84-28388 *	US-PATENT-CLASS-136-175	c 03	N72-20034 *
US-PATENT-CLASS-128-2.06	c 05	N69-21925 *	US-PATENT-CLASS-128-348	c 52	N80-16725 *	US-PATENT-CLASS-136-179	c 03	N70-41864 *
US-PATENT-CLASS-128-2.06	c 05	N71-22896 *	US-PATENT-CLASS-128-379	c 52	N77-14736 *	US-PATENT-CLASS-136-182	c 03	N71-10728 *
US-PATENT-CLASS-128-2.06	c 09	N71-24618 *	US-PATENT-CLASS-128-38	c 54	N84-16803 *	US-PATENT-CLASS-136-182	c 03	N71-20407 *
US-PATENT-CLASS-128-2.06	c 05	N71-26293 *	US-PATENT-CLASS-128-400	c 52	N77-14736 *	US-PATENT-CLASS-136-182	c 03	N71-20491 *
US-PATENT-CLASS-128-2.07	c 05	N73-32015 *	US-PATENT-CLASS-128-402	c 05	N72-20096 *	US-PATENT-CLASS-136-182	c 44	N74-27519 *
US-PATENT-CLASS-128-2.07	c 52	N74-20728 *	US-PATENT-CLASS-128-402	c 52	N77-14736 *	US-PATENT-CLASS-136-182	c 44	N76-14601 *
US-PATENT-CLASS-128-2.08	c 05	N69-21473 *	US-PATENT-CLASS-128-410	c 52	N77-28717 *	US-PATENT-CLASS-136-200	c 35	N91-31608 *
US-PATENT-CLASS-128-2.08	c 05	N73-32015 *	US-PATENT-CLASS-128-417	c 05	N72-25120 *	US-PATENT-CLASS-136-202	c 09	N72-12136 *
US-PATENT-CLASS-128-2.08	c 52	N74-20728 *	US-PATENT-CLASS-128-417	c 05	N72-27103 *	US-PATENT-CLASS-136-202	c 03	N72-26031 *
US-PATENT-CLASS-128-2.1A	c 09	N72-17153 *	US-PATENT-CLASS-128-418	c 52	N76-29896 *	US-PATENT-CLASS-136-202	c 44	N76-16612 *
US-PATENT-CLASS-128-2.1A	c 09	N72-22202 *	US-PATENT-CLASS-128-418	c 52	N77-14738 *	US-PATENT-CLASS-136-202	c 35	N72-32454 *
US-PATENT-CLASS-128-2.1A	c 52	N74-26625 *	US-PATENT-CLASS-128-419P	c 52	N76-29896 *	US-PATENT-CLASS-136-202	c 35	N79-14346 *
US-PATENT-CLASS-128-2.1A	c 52	N76-14757 *	US-PATENT-CLASS-128-421	c 52	N82-29863 *	US-PATENT-CLASS-136-202	c 44	N92-16457 *
US-PATENT-CLASS-128-2.1A	c 52	N76-29894 *	US-PATENT-CLASS-128-422	c 52	N82-33996 *	US-PATENT-CLASS-136-204	c 31	N91-27385 *
US-PATENT-CLASS-128-2.1A	c 52	N79-18580 *	US-PATENT-CLASS-128-62A	c 52	N82-29862 *	US-PATENT-CLASS-136-205	c 44	N92-16457 *
US-PATENT-CLASS-128-2.1E	c 05	N72-27103 *	US-PATENT-CLASS-128-639	c 52	N79-27836 *	US-PATENT-CLASS-136-206	c 03	N72-11062 *
US-PATENT-CLASS-128-2.1E	c 35	N76-24525 *	US-PATENT-CLASS-128-642	c 52	N80-27072 *	US-PATENT-CLASS-136-206	c 09	N72-12136 *
US-PATENT-CLASS-128-2.1E	c 52	N77-28717 *	US-PATENT-CLASS-128-642	c 52	N81-14612 *	US-PATENT-CLASS-136-206	c 44	N76-14595 *
US-PATENT-CLASS-128-2.1R	c 05	N73-26072 *	US-PATENT-CLASS-128-642	c 52	N81-20703 *	US-PATENT-CLASS-136-206	c 44	N76-31666 *
US-PATENT-CLASS-128-2.1Z	c 35	N76-24525 *	US-PATENT-CLASS-128-660.06	c 71	N91-27914 *	US-PATENT-CLASS-136-20	c 44	N74-19693 *
US-PATENT-CLASS-128-2.1	c 05	N77-11193 *	US-PATENT-CLASS-128-660	c 52	N79-26771 *	US-PATENT-CLASS-136-210	c 44	N76-16612 *
US-PATENT-CLASS-128-2.1	c 05	N71-12346 *	US-PATENT-CLASS-128-660	c 52	N83-27578 *	US-PATENT-CLASS-136-211	c 35	N76-15434 *
US-PATENT-CLASS-128-2.1	c 05	N71-24729 *	US-PATENT-CLASS-128-660	c 52	N85-30618 *	US-PATENT-CLASS-136-212	c 35	N76-15434 *
US-PATENT-CLASS-128-2.1	c 09	N71-26002 *	US-PATENT-CLASS-128-661.03	c 52	N90-21519 *	US-PATENT-CLASS-136-213	c 14	N69-27459 *
US-PATENT-CLASS-128-2.1	c 05	N72-25120 *	US-PATENT-CLASS-128-661.03	c 52	N92-11621 *	US-PATENT-CLASS-136-213	c 34	N74-27861 *
US-PATENT-CLASS-128-2F	c 54	N76-14804 *	US-PATENT-CLASS-128-663	c 52	N83-27578 *	US-PATENT-CLASS-136-224	c 14	N73-12447 *
US-PATENT-CLASS-128-2H	c 52	N76-14757 *	US-PATENT-CLASS-128-665	c 52	N81-27783 *	US-PATENT-CLASS-136-225	c 14	N73-24472 *
US-PATENT-CLASS-128-2H	c 52	N76-29894 *	US-PATENT-CLASS-128-666	c 52	N80-23969 *	US-PATENT-CLASS-136-225	c 35	N76-15434 *
US-PATENT-CLASS-128-2H	c 52	N77-10780 *	US-PATENT-CLASS-128-671	c 52	N91-14709 *	US-PATENT-CLASS-136-225	c 44	N85-21768 *
US-PATENT-CLASS-128-2H	c 52	N77-14736 *	US-PATENT-CLASS-128-675	c 35	N90-23706 *	US-PATENT-CLASS-136-227	c 09	N72-12136 *
US-PATENT-CLASS-128-2N	c 05	N72-25122 *	US-PATENT-CLASS-128-686	c 52	N82-11770 *	US-PATENT-CLASS-136-228	c 33	N71-15568 *
US-PATENT-CLASS-128-2N	c 05	N73-13114 *	US-PATENT-CLASS-128-689	c 52	N91-14709 *	US-PATENT-CLASS-136-230	c 14	N71-23039 *
US-PATENT-CLASS-128-2P	c 52	N76-29894 *	US-PATENT-CLASS-128-690	c 52	N80-23969 *	US-PATENT-CLASS-136-230	c 34	N74-27861 *
US-PATENT-CLASS-128-2R	c 09	N72-22202 *	US-PATENT-CLASS-128-691	c 52	N82-11770 *	US-PATENT-CLASS-136-232	c 35	N77-14409 *
US-PATENT-CLASS-128-2R	c 52	N79-12694 *	US-PATENT-CLASS-128-6	c 52	N80-16725 *	US-PATENT-CLASS-136-233	c 14	N72-27410 *
US-PATENT-CLASS-128-2S	c 52	N74-10975 *	US-PATENT-CLASS-128-706	c 52	N91-14709 *	US-PATENT-CLASS-136-233	c 14	N73-13417 *
US-PATENT-CLASS-128-2S	c 52	N74-27864 *	US-PATENT-CLASS-128-716	c 52	N91-14709 *	US-PATENT-CLASS-136-233	c 34	N74-27861 *
US-PATENT-CLASS-128-2S	c 33	N75-31329 *	US-PATENT-CLASS-128-736	c 52	N85-30618 *	US-PATENT-CLASS-136-233	c 35	N77-14409 *
US-PATENT-CLASS-128-2S	c 33	N76-19338 *	US-PATENT-CLASS-128-748	c 52	N80-18691 *	US-PATENT-CLASS-136-236R	c 35	N77-32454 *
US-PATENT-CLASS-128-2S	c 52	N76-29895 *	US-PATENT-CLASS-128-748	c 35	N90-23706 *	US-PATENT-CLASS-136-236	c 35	N79-14346 *
US-PATENT-CLASS-128-2S	c 52	N76-29896 *	US-PATENT-CLASS-128-760	c 52	N80-18690 *	US-PATENT-CLASS-136-240	c 35	N77-32454 *
US-PATENT-CLASS-128-2V	c 52	N74-20726 *	US-PATENT-CLASS-128-760	c 52	N81-29763 *	US-PATENT-CLASS-136-244	c 44	N91-27614 *
US-PATENT-CLASS-128-2V	c 35	N75-12271 *	US-PATENT-CLASS-128-761	c 52	N81-24711 *	US-PATENT-CLASS-136-245	c 54	N92-21589 *
US-PATENT-CLASS-128-2V	c 54	N75-27760 *	US-PATENT-CLASS-128-774	c 52	N80-27072 *	US-PATENT-CLASS-136-246	c 44	N85-21768 *
US-PATENT-CLASS-128-2V	c 52	N79-14751 *	US-PATENT-CLASS-128-774	c 52	N81-20703 *	US-PATENT-CLASS-136-246	c 54	N92-21589 *
US-PATENT-CLASS-128-2V	c 52	N79-18580 *	US-PATENT-CLASS-128-774	c 52	N83-25346 *	US-PATENT-CLASS-136-249	c 44	N81-12542 *
US-PATENT-CLASS-128-202.11	c 54	N86-28618 *	US-PATENT-CLASS-128-778	c 52	N82-22875 *	US-PATENT-CLASS-136-249	c 44	N82-29709 *
US-PATENT-CLASS-128-203	c 54	N76-24900 *	US-PATENT-CLASS-128-778	c 35	N90-23706 *	US-PATENT-CLASS-136-249	c 44	N82-31764 *
US-PATENT-CLASS-128-204.18	c 51	N81-14605 *	US-PATENT-CLASS-128-782	c 52	N80-27072 *	US-PATENT-CLASS-136-249	c 44	N83-32177 *
US-PATENT-CLASS-128-206F	c 14	N73-24473 *	US-PATENT-CLASS-128-782	c 39	N83-20280 *	US-PATENT-CLASS-136-249	c 44	N87-17399 *
US-PATENT-CLASS-128-207.14	c 51	N81-14605 *	US-PATENT-CLASS-128-782	c 52	N83-25346 *	US-PATENT-CLASS-136-249	c 33	N87-23879 *
US-PATENT-CLASS-128-207.28	c 51	N81-14605 *	US-PATENT-CLASS-128-784	c 52	N82-33996 *	US-PATENT-CLASS-136-249	c 44	N91-27614 *
US-PATENT-CLASS-128-212	c 54	N80-10799 *	US-PATENT-CLASS-128-80-E	c 54	N86-22112 *	US-PATENT-CLASS-136-24	c 09	N73-32108 *

US-PATENT-CLASS-136-253	c 44	N85-34441 *	US-PATENT-CLASS-136-89	c 44	N77-19571 *	US-PATENT-CLASS-137-81	c 05	N72-20097 *
US-PATENT-CLASS-136-253	c 44	N92-22037 *	US-PATENT-CLASS-136-89	c 44	N79-11468 *	US-PATENT-CLASS-137-81	c 14	N73-13418 *
US-PATENT-CLASS-136-255	c 44	N81-29525 *	US-PATENT-CLASS-136-90	c 44	N76-14601 *	US-PATENT-CLASS-137-833	c 33	N74-11050 *
US-PATENT-CLASS-136-255	c 44	N83-14692 *	US-PATENT-CLASS-137-DIG 9	c 54	N76-24900 *	US-PATENT-CLASS-137-838	c 71	N84-28568 *
US-PATENT-CLASS-136-255	c 33	N85-21492 *	US-PATENT-CLASS-137-101	c 07	N77-23106 *	US-PATENT-CLASS-137-840	c 33	N74-11050 *
US-PATENT-CLASS-136-255	c 44	N85-30475 *	US-PATENT-CLASS-137-104	c 37	N78-10467 *	US-PATENT-CLASS-137-886	c 37	N81-17433 *
US-PATENT-CLASS-136-255	c 44	N86-20150 *	US-PATENT-CLASS-137-110	c 54	N76-24900 *	US-PATENT-CLASS-137-887	c 37	N81-17433 *
US-PATENT-CLASS-136-255	c 76	N87-23879 *	US-PATENT-CLASS-137-116.3	c 37	N85-34403 *	US-PATENT-CLASS-137-99	c 37	N85-34403 *
US-PATENT-CLASS-136-255	c 33	N83-13579 *	US-PATENT-CLASS-137-13	c 15	N71-15967 *	US-PATENT-CLASS-138.8R	c 27	N81-15104 *
US-PATENT-CLASS-136-256	c 44	N83-14692 *	US-PATENT-CLASS-137-13	c 15	N72-33477 *	US-PATENT-CLASS-138-103	c 52	N80-16725 *
US-PATENT-CLASS-136-256	c 44	N85-20530 *	US-PATENT-CLASS-137-14	c 37	N79-33468 *	US-PATENT-CLASS-138-113	c 34	N75-12222 *
US-PATENT-CLASS-136-256	c 44	N85-30475 *	US-PATENT-CLASS-137-15.1	c 02	N74-20646 *	US-PATENT-CLASS-138-114	c 34	N75-12222 *
US-PATENT-CLASS-136-256	c 44	N91-27614 *	US-PATENT-CLASS-137-15.1	c 07	N74-31270 *	US-PATENT-CLASS-138-119	c 32	N70-41579 *
US-PATENT-CLASS-136-256	c 44	N81-19558 *	US-PATENT-CLASS-137-15.1	c 07	N75-24736 *	US-PATENT-CLASS-138-120	c 54	N86-28619 *
US-PATENT-CLASS-136-258	c 44	N81-29525 *	US-PATENT-CLASS-137-15.1	c 07	N77-18154 *	US-PATENT-CLASS-138-120	c 54	N86-28620 *
US-PATENT-CLASS-136-259	c 44	N83-13579 *	US-PATENT-CLASS-137-15.1	c 07	N79-14096 *	US-PATENT-CLASS-138-120	c 54	N86-29507 *
US-PATENT-CLASS-136-259	c 44	N83-14692 *	US-PATENT-CLASS-137-15.1	c 05	N79-24976 *	US-PATENT-CLASS-138-133	c 52	N80-16725 *
US-PATENT-CLASS-136-261	c 44	N82-26777 *	US-PATENT-CLASS-137-15.1	c 07	N81-14999 *	US-PATENT-CLASS-138-141	c 24	N90-25196 *
US-PATENT-CLASS-136-261	c 44	N85-30475 *	US-PATENT-CLASS-137-15.2	c 02	N74-20646 *	US-PATENT-CLASS-138-148	c 34	N75-12222 *
US-PATENT-CLASS-136-261	c 44	N86-32875 *	US-PATENT-CLASS-137-15.2	c 35	N76-14431 *	US-PATENT-CLASS-138-149	c 24	N90-25196 *
US-PATENT-CLASS-136-262	c 44	N81-29525 *	US-PATENT-CLASS-137-154	c 15	N73-27406 *	US-PATENT-CLASS-138-153	c 24	N90-25196 *
US-PATENT-CLASS-136-262	c 76	N86-20150 *	US-PATENT-CLASS-137-177	c 31	N90-20254 *	US-PATENT-CLASS-138-178	c 15	N72-20445 *
US-PATENT-CLASS-136-28	c 03	N71-10608 *	US-PATENT-CLASS-137-177	c 20	N80-10278 *	US-PATENT-CLASS-138-26	c 31	N91-25305 *
US-PATENT-CLASS-136-290	c 44	N82-26777 *	US-PATENT-CLASS-137-197	c 15	N70-41646 *	US-PATENT-CLASS-138-30	c 31	N91-25305 *
US-PATENT-CLASS-136-291	c 44	N81-12542 *	US-PATENT-CLASS-137-197	c 35	N78-12390 *	US-PATENT-CLASS-138-33	c 52	N80-16725 *
US-PATENT-CLASS-136-30	c 44	N74-19693 *	US-PATENT-CLASS-137-1	c 12	N70-38997 *	US-PATENT-CLASS-138-38	c 02	N88-14071 *
US-PATENT-CLASS-136-30	c 44	N76-18643 *	US-PATENT-CLASS-137-1	c 15	N73-27406 *	US-PATENT-CLASS-138-38	c 34	N88-29133 *
US-PATENT-CLASS-136-30	c 44	N76-29699 *	US-PATENT-CLASS-137-207	c 34	N77-30399 *	US-PATENT-CLASS-138-42	c 15	N71-15608 *
US-PATENT-CLASS-136-36	c 44	N74-19692 *	US-PATENT-CLASS-137-209	c 34	N77-30399 *	US-PATENT-CLASS-138-42	c 44	N84-14583 *
US-PATENT-CLASS-136-6LF	c 44	N76-18643 *	US-PATENT-CLASS-137-209	c 20	N80-10278 *	US-PATENT-CLASS-138-43	c 15	N71-19213 *
US-PATENT-CLASS-136-6	c 03	N71-26084 *	US-PATENT-CLASS-137-340	c 15	N70-34817 *	US-PATENT-CLASS-138-45	c 15	N71-18580 *
US-PATENT-CLASS-136-6	c 03	N72-15986 *	US-PATENT-CLASS-137-340	c 15	N70-35087 *	US-PATENT-CLASS-138-45	c 15	N73-13462 *
US-PATENT-CLASS-136-6	c 44	N82-24641 *	US-PATENT-CLASS-137-341	c 12	N71-17661 *	US-PATENT-CLASS-138-46	c 12	N71-18615 *
US-PATENT-CLASS-136-6	c 44	N82-24642 *	US-PATENT-CLASS-137-375	c 37	N80-23654 *	US-PATENT-CLASS-138-4	c 15	N71-18580 *
US-PATENT-CLASS-136-6	c 44	N82-24643 *	US-PATENT-CLASS-137-397	c 15	N73-26472 *	US-PATENT-CLASS-138-96R	c 37	N79-22474 *
US-PATENT-CLASS-136-6	c 44	N82-24644 *	US-PATENT-CLASS-137-489.2	c 05	N72-20097 *	US-PATENT-CLASS-138-97	c 37	N86-32736 *
US-PATENT-CLASS-136-79	c 03	N72-20032 *	US-PATENT-CLASS-137-489.2	c 34	N78-25351 *	US-PATENT-CLASS-139-425R	c 28	N71-1708 *
US-PATENT-CLASS-136-81	c 03	N72-20032 *	US-PATENT-CLASS-137-487.5	c 14	N73-13418 *	US-PATENT-CLASS-141-71.5	c 18	N91-14374 *
US-PATENT-CLASS-136-83R	c 03	N72-20034 *	US-PATENT-CLASS-137-491	c 15	N69-21924 *	US-PATENT-CLASS-140-105	c 15	N72-12408 *
US-PATENT-CLASS-136-83R	c 44	N76-18641 *	US-PATENT-CLASS-137-493	c 52	N81-25660 *	US-PATENT-CLASS-140-123	c 15	N71-15918 *
US-PATENT-CLASS-136-83	c 03	N71-28579 *	US-PATENT-CLASS-137-495	c 15	N70-38603 *	US-PATENT-CLASS-140-124	c 15	N71-10809 *
US-PATENT-CLASS-136-86A	c 44	N76-27664 *	US-PATENT-CLASS-137-496	c 15	N71-22706 *	US-PATENT-CLASS-141-197	c 35	N78-10428 *
US-PATENT-CLASS-136-86S	c 44	N76-18641 *	US-PATENT-CLASS-137-501	c 34	N78-25351 *	US-PATENT-CLASS-141-198	c 25	N86-27431 *
US-PATENT-CLASS-136-86	c 03	N71-11052 *	US-PATENT-CLASS-137-505.12	c 14	N71-18625 *	US-PATENT-CLASS-141-23	c 15	N72-14665 *
US-PATENT-CLASS-136-86	c 03	N71-20904 *	US-PATENT-CLASS-137-505.16	c 34	N78-25351 *	US-PATENT-CLASS-141-258	c 14	N71-27005 *
US-PATENT-CLASS-136-86	c 15	N71-23022 *	US-PATENT-CLASS-137-505.25	c 37	N78-25426 *	US-PATENT-CLASS-141-45	c 29	N90-20236 *
US-PATENT-CLASS-136-86	c 03	N71-29044 *	US-PATENT-CLASS-137-505.38	c 37	N75-15050 *	US-PATENT-CLASS-141-4	c 35	N78-10428 *
US-PATENT-CLASS-136-89AC	c 44	N77-31601 *	US-PATENT-CLASS-137-505.42	c 37	N75-15050 *	US-PATENT-CLASS-141-5	c 33	N71-20834 *
US-PATENT-CLASS-136-89CC	c 44	N79-25482 *	US-PATENT-CLASS-137-515.3	c 37	N76-14463 *	US-PATENT-CLASS-141-91	c 12	N71-21089 *
US-PATENT-CLASS-136-89CC	c 44	N78-25527 *	US-PATENT-CLASS-137-516.27	c 15	N73-30459 *	US-PATENT-CLASS-141-93	c 31	N90-20254 *
US-PATENT-CLASS-136-89CC	c 44	N78-25529 *	US-PATENT-CLASS-137-535	c 15	N73-30459 *	US-PATENT-CLASS-148-DIG.22	c 76	N92-22035 *
US-PATENT-CLASS-136-89CC	c 44	N79-11467 *	US-PATENT-CLASS-137-535	c 05	N73-32014 *	US-PATENT-CLASS-148-DIG.26	c 76	N85-30922 *
US-PATENT-CLASS-136-89CC	c 44	N79-17314 *	US-PATENT-CLASS-137-538	c 05	N73-25125 *	US-PATENT-CLASS-148-1.5	c 26	N71-10607 *
US-PATENT-CLASS-136-89CC	c 44	N79-25482 *	US-PATENT-CLASS-137-539	c 15	N70-41811 *	US-PATENT-CLASS-148-1.5	c 26	N71-23654 *
US-PATENT-CLASS-136-89CC	c 44	N79-31752 *	US-PATENT-CLASS-137-549	c 37	N81-17433 *	US-PATENT-CLASS-148-1.5	c 76	N74-20329 *
US-PATENT-CLASS-136-89H	c 44	N78-25528 *	US-PATENT-CLASS-137-550	c 37	N76-14463 *	US-PATENT-CLASS-148-1.5	c 44	N80-29835 *
US-PATENT-CLASS-136-89H	c 44	N78-25529 *	US-PATENT-CLASS-137-554	c 09	N71-23191 *	US-PATENT-CLASS-148-1.5	c 33	N81-26360 *
US-PATENT-CLASS-136-89PC	c 44	N79-25482 *	US-PATENT-CLASS-137-556	c 34	N91-14563 *	US-PATENT-CLASS-148-1.5	c 44	N82-26777 *
US-PATENT-CLASS-136-89P	c 44	N77-31601 *	US-PATENT-CLASS-137-559	c 11	N73-12265 *	US-PATENT-CLASS-148-1.5	c 44	N82-29709 *
US-PATENT-CLASS-136-89P	c 44	N78-25528 *	US-PATENT-CLASS-137-574	c 20	N80-10278 *	US-PATENT-CLASS-148-1.5	c 44	N86-32875 *
US-PATENT-CLASS-136-89P	c 44	N78-25529 *	US-PATENT-CLASS-137-576	c 20	N80-10278 *	US-PATENT-CLASS-148-11.5R	c 15	N73-13465 *
US-PATENT-CLASS-136-89P	c 44	N78-27515 *	US-PATENT-CLASS-137-582	c 32	N71-16103 *	US-PATENT-CLASS-148-12.4	c 26	N79-22271 *
US-PATENT-CLASS-136-89P	c 44	N79-17314 *	US-PATENT-CLASS-137-582	c 32	N71-16106 *	US-PATENT-CLASS-148-12.7A	c 26	N78-24333 *
US-PATENT-CLASS-136-89P	c 44	N80-14474 *	US-PATENT-CLASS-137-582	c 15	N71-19569 *	US-PATENT-CLASS-148-12.7N	c 26	N77-20201 *
US-PATENT-CLASS-136-89SG	c 44	N78-24609 *	US-PATENT-CLASS-137-590	c 15	N73-26472 *	US-PATENT-CLASS-148-12F	c 26	N79-22271 *
US-PATENT-CLASS-136-89SG	c 44	N80-24741 *	US-PATENT-CLASS-137-594	c 12	N80-10278 *	US-PATENT-CLASS-148-121	c 76	N79-16678 *
US-PATENT-CLASS-136-89SJ	c 44	N78-13526 *	US-PATENT-CLASS-137-604	c 15	N71-18615 *	US-PATENT-CLASS-148-125	c 26	N78-24333 *
US-PATENT-CLASS-136-89SJ	c 44	N79-11467 *	US-PATENT-CLASS-137-606	c 37	N73-27406 *	US-PATENT-CLASS-148-126	c 17	N71-24142 *
US-PATENT-CLASS-136-89SJ	c 44	N79-14528 *	US-PATENT-CLASS-137-608	c 37	N87-21332 *	US-PATENT-CLASS-148-126	c 18	N71-26153 *
US-PATENT-CLASS-136-89SJ	c 44	N79-25482 *	US-PATENT-CLASS-137-614.06	c 15	N73-13462 *	US-PATENT-CLASS-148-126	c 18	N71-28729 *
US-PATENT-CLASS-136-89	c 03	N69-24267 *	US-PATENT-CLASS-137-614.11	c 37	N79-11402 *	US-PATENT-CLASS-148-126	c 26	N74-10521 *
US-PATENT-CLASS-136-89	c 03	N71-11049 *	US-PATENT-CLASS-137-614.18	c 37	N87-25573 *	US-PATENT-CLASS-148-127	c 26	N75-29236 *
US-PATENT-CLASS-136-89	c 03	N71-11050 *	US-PATENT-CLASS-137-614	c 15	N87-25573 *	US-PATENT-CLASS-148-13.1	c 76	N90-19884 *
US-PATENT-CLASS-136-89	c 03	N71-11056 *	US-PATENT-CLASS-137-614	c 15	N70-36492 *	US-PATENT-CLASS-148-131	c 26	N80-28492 *
US-PATENT-CLASS-136-89	c 03	N71-18698 *	US-PATENT-CLASS-137-615	c 12	N71-16031 *	US-PATENT-CLASS-148-13	c 14	N71-25892 *
US-PATENT-CLASS-136-89	c 03	N71-19545 *	US-PATENT-CLASS-137-624.11	c 35	N78-19466 *	US-PATENT-CLASS-148-13	c 76	N90-19884 *
US-PATENT-CLASS-136-89	c 03	N71-20492 *	US-PATENT-CLASS-137-624.14	c 03	N69-21469 *	US-PATENT-CLASS-148-149	c 09	N90-23415 *
US-PATENT-CLASS-136-89	c 03	N71-20895 *	US-PATENT-CLASS-137-625.38	c 37	N78-25426 *	US-PATENT-CLASS-148-159	c 26	N89-28621 *
US-PATENT-CLASS-136-89	c 26	N71-23043 *	US-PATENT-CLASS-137-625.3	c 37	N78-25426 *	US-PATENT-CLASS-148-16.6	c 26	N88-14179 *
US-PATENT-CLASS-136-89	c 03	N71-23187 *	US-PATENT-CLASS-137-625.4	c 37	N80-23654 *	US-PATENT-CLASS-148-162	c 26	N77-20201 *
US-PATENT-CLASS-136-89	c 03	N71-23449 *	US-PATENT-CLASS-137-625.5	c 15	N71-23051 *	US-PATENT-CLASS-148-162	c 26	N87-28647 *
US-PATENT-CLASS-136-89	c 03	N71-33409 *	US-PATENT-CLASS-137-625.69	c 15	N70-36908 *	US-PATENT-CLASS-148-173	c 76	N83-20789 *
US-PATENT-CLASS-136-89	c 03	N72-20031 *	US-PATENT-CLASS-137-628	c 37	N74-21065 *	US-PATENT-CLASS-148-174	c 26	N71-29156 *
US-PATENT-CLASS-136-89	c 03	N72-22042 *	US-PATENT-CLASS-137-637.05	c 37	N79-11402 *	US-PATENT-CLASS-148-174	c 44	N76-28635 *
US-PATENT-CLASS-136-89	c 31	N72-22874 *	US-PATENT-CLASS-137-81.5	c 12	N69-21466 *	US-PATENT-CLASS-148-174	c 44	N78-24609 *
US-PATENT-CLASS-136-89	c 03	N72-24037 *	US-PATENT-CLASS-137-81.5	c 15	N71-15609 *	US-PATENT-CLASS-148-174	c 76	N85-30922 *
US-PATENT-CLASS-136-89	c 09	N72-25259 *	US-PATENT-CLASS-137-81.5	c 12	N71-17578 *	US-PATENT-CLASS-148-174	c 76	N87-15882 *
US-PATENT-CLASS-136-89	c 03	N72-27053 *	US-PATENT-CLASS-137-81.5	c 12	N71-17579 *	US-PATENT-CLASS-148-175	c 25	N75-26043 *
US-PATENT-CLASS-136-89	c 09	N73-32109 *	US-PATENT-CLASS-137-81.5	c 10	N71-25899 *	US-PATENT-CLASS-148-175	c 76	N76-25049 *
US-PATENT-CLASS-136-89	c 44	N74-14784 *	US-PATENT-CLASS-137-81.5	c 12	N71-27332 *	US-PATENT-CLASS-148-175	c 44	N76-28635 *
US-PATENT-CLASS-136-89	c 44	N76-14600 *	US-PATENT-CLASS-137-81.5	c 12	N71-28741 *	US-PATENT-CLASS-148-175	c 44	N82-28780 *
US-PATENT-CLASS-136-89	c 44	N76-28635 *	US-PATENT-CLASS-137-81.5	c 28	N72-22772 *	US-PATENT-CLASS-148-175	c 76	N83-20789 *
US-PATENT-CLASS-136-89	c 44	N76-31666 *	US-PATENT-CLASS-137-81.5	c 15	N72-33477 *	US-PATENT-CLASS-148-175	c 76	N85-30922 *
US-PATENT-CLASS-136-89	c 44	N77-10635 *	US-PATENT-CLASS-137-81.5	c 15	N73-13462 *	US-PATENT-CLASS-148-175	c 76	N87-15882 *
US-PATENT-CLASS-136-89	c 44	N77-14580 *	US-PATENT-CLASS-137-819	c 28	N73-13773 *	US-PATENT-CLASS-148-187	c 26	N72-17820 *
				c 33	N74-11050 *	US-PATENT-CLASS-148-187	c 14	N72-28438 *

REPORT NUMBER INDEX

US-PATENT-CLASS-148-187 c 33 N81-26360 *
 US-PATENT-CLASS-148-187 c 35 N87-14671 *
 US-PATENT-CLASS-148-188 c 24 N71-10560 *
 US-PATENT-CLASS-148-188 c 09 N71-12513 *
 US-PATENT-CLASS-148-188 c 44 N79-11468 *
 US-PATENT-CLASS-148-188 c 35 N87-14671 *
 US-PATENT-CLASS-148-189 c 35 N87-14671 *
 US-PATENT-CLASS-148-190 c 35 N87-14671 *
 US-PATENT-CLASS-148-20.3 c 26 N77-20201 *
 US-PATENT-CLASS-148-2 c 26 N77-20201 *
 US-PATENT-CLASS-148-2 c 26 N79-22271 *
 US-PATENT-CLASS-148-32 c 26 N78-18183 *
 US-PATENT-CLASS-148-32.5 c 17 N72-22535 *
 US-PATENT-CLASS-148-32.5 c 26 N77-20201 *
 US-PATENT-CLASS-148-32.5 c 26 N77-32280 *
 US-PATENT-CLASS-148-32.5 c 26 N78-18183 *
 US-PATENT-CLASS-148-32 c 26 N77-32279 *
 US-PATENT-CLASS-148-32 c 26 N80-23419 *
 US-PATENT-CLASS-148-32 c 76 N85-30922 *
 US-PATENT-CLASS-148-31.2 c 26 N87-28647 *
 US-PATENT-CLASS-148-416 c 26 N89-28621 *
 US-PATENT-CLASS-148-417 c 26 N89-28621 *
 US-PATENT-CLASS-148-428 c 26 N82-31505 *
 US-PATENT-CLASS-148-429 c 26 N87-14482 *
 US-PATENT-CLASS-148-4 c 09 N90-23415 *
 US-PATENT-CLASS-148-6.11 c 15 N71-24875 *
 US-PATENT-CLASS-148-6.16 c 18 N71-23047 *
 US-PATENT-CLASS-148-6.20 c 17 N71-23828 *
 US-PATENT-CLASS-148-6 c 17 N71-33408 *
 US-PATENT-CLASS-148-6.3 c 44 N79-18444 *
 US-PATENT-CLASS-148-6.3 c 26 N87-25455 *
 US-PATENT-CLASS-148-6 c 18 N71-29040 *
 US-PATENT-CLASS-148-6 c 76 N79-16678 *
 US-PATENT-CLASS-148-902 c 09 N90-23415 *
 US-PATENT-CLASS-148-903 c 09 N90-23415 *
 US-PATENT-CLASS-149-105 c 28 N78-31255 *
 US-PATENT-CLASS-149-108.4 c 28 N80-23471 *
 US-PATENT-CLASS-149-108.4 c 28 N81-15119 *
 US-PATENT-CLASS-149-109 c 27 N70-41897 *
 US-PATENT-CLASS-149-111 c 28 N78-31255 *
 US-PATENT-CLASS-149-15 c 44 N80-20808 *
 US-PATENT-CLASS-149-17 c 28 N74-33209 *
 US-PATENT-CLASS-149-19.2 c 28 N80-28536 *
 US-PATENT-CLASS-149-19.4 c 28 N78-31255 *
 US-PATENT-CLASS-149-19.4 c 20 N78-32179 *
 US-PATENT-CLASS-149-19.4 c 28 N79-28342 *
 US-PATENT-CLASS-149-19.8 c 28 N78-31255 *
 US-PATENT-CLASS-149-19.92 c 28 N79-14228 *
 US-PATENT-CLASS-149-19.9 c 28 N79-14228 *
 US-PATENT-CLASS-149-19.9 c 28 N79-28342 *
 US-PATENT-CLASS-149-19.9 c 28 N80-28536 *
 US-PATENT-CLASS-149-19 c 27 N71-14090 *
 US-PATENT-CLASS-149-19 c 27 N72-25699 *
 US-PATENT-CLASS-149-19 c 27 N73-16764 *
 US-PATENT-CLASS-149-1 c 23 N71-16212 *
 US-PATENT-CLASS-149-1 c 06 N73-30097 *
 US-PATENT-CLASS-149-1 c 28 N80-20402 *
 US-PATENT-CLASS-149-1 c 28 N81-14103 *
 US-PATENT-CLASS-149-20 c 27 N72-25699 *
 US-PATENT-CLASS-149-20 c 28 N79-14228 *
 US-PATENT-CLASS-149-20 c 28 N79-28342 *
 US-PATENT-CLASS-149-20 c 28 N80-28536 *
 US-PATENT-CLASS-149-2 c 12 N70-40124 *
 US-PATENT-CLASS-149-36 c 27 N72-25699 *
 US-PATENT-CLASS-149-36 c 27 N73-16764 *
 US-PATENT-CLASS-149-36 c 06 N73-30097 *
 US-PATENT-CLASS-149-36 c 24 N76-14203 *
 US-PATENT-CLASS-149-37 c 44 N80-20808 *
 US-PATENT-CLASS-149-42 c 20 N78-32179 *
 US-PATENT-CLASS-149-43 c 20 N78-32179 *
 US-PATENT-CLASS-149-44 c 20 N78-32179 *
 US-PATENT-CLASS-149-60 c 28 N74-33209 *
 US-PATENT-CLASS-149-76 c 28 N74-33209 *
 US-PATENT-CLASS-149-76 c 20 N78-32179 *
 US-PATENT-CLASS-149-83 c 20 N78-32179 *
 US-PATENT-CLASS-149-85 c 20 N78-32179 *
 US-PATENT-CLASS-149-88 c 28 N78-31255 *
 US-PATENT-CLASS-149-92 c 27 N72-25699 *
 US-PATENT-CLASS-149-92 c 28 N78-31255 *
 US-PATENT-CLASS-149-93 c 28 N78-31255 *
 US-PATENT-CLASS-15-143 c 15 N72-11390 *
 US-PATENT-CLASS-15-210 c 15 N72-11390 *
 US-PATENT-CLASS-15-230.16 c 37 N79-10422 *
 US-PATENT-CLASS-15-230.17 c 37 N79-10422 *
 US-PATENT-CLASS-15-406 c 37 N85-21652 *
 US-PATENT-CLASS-15-415 c 14 N73-30395 *
 US-PATENT-CLASS-150-11 c 37 N81-14317 *
 US-PATENT-CLASS-150-1 c 52 N79-14749 *
 US-PATENT-CLASS-151-41.76 c 37 N80-23653 *
 US-PATENT-CLASS-152-11 c 31 N71-18611 *
 US-PATENT-CLASS-152-225 c 15 N71-27091 *
 US-PATENT-CLASS-152-250 c 15 N71-27091 *
 US-PATENT-CLASS-152-330RF c 37 N81-24443 *
 US-PATENT-CLASS-152-353G c 37 N81-24443 *
 US-PATENT-CLASS-152-353R c 37 N81-24443 *
 US-PATENT-CLASS-152-379.4 c 37 N81-24443 *

US-PATENT-CLASS-156-307.7 c 27 N82-11206 *
 US-PATENT-CLASS-156-DIG.113 c 76 N90-24169 *
 US-PATENT-CLASS-156-DIG.6.8 c 76 N79-23798 *
 US-PATENT-CLASS-156-DIG.62 c 76 N77-32919 *
 US-PATENT-CLASS-156-DIG.62 c 35 N83-24828 *
 US-PATENT-CLASS-156-DIG.62 c 33 N85-29142 *
 US-PATENT-CLASS-156-DIG.62 c 76 N90-23242 *
 US-PATENT-CLASS-156-DIG.62 c 76 N90-24169 *
 US-PATENT-CLASS-156-DIG.64 c 76 N79-11920 *
 US-PATENT-CLASS-156-DIG.64 c 44 N80-24741 *
 US-PATENT-CLASS-156-DIG.64 c 76 N80-32245 *
 US-PATENT-CLASS-156-DIG.64 c 76 N84-35113 *
 US-PATENT-CLASS-156-DIG.64 c 76 N92-21499 *
 US-PATENT-CLASS-156-DIG.65 c 76 N79-11920 *
 US-PATENT-CLASS-156-DIG.65 c 76 N85-30922 *
 US-PATENT-CLASS-156-DIG.6 c 76 N83-35888 *
 US-PATENT-CLASS-156-DIG.70 c 76 N88-24544 *
 US-PATENT-CLASS-156-DIG.70 c 76 N88-24545 *
 US-PATENT-CLASS-156-DIG.72 c 76 N88-24544 *
 US-PATENT-CLASS-156-DIG.72 c 76 N88-24545 *
 US-PATENT-CLASS-156-DIG.72 c 76 N90-23242 *
 US-PATENT-CLASS-156-DIG.73 c 76 N83-35888 *
 US-PATENT-CLASS-156-DIG.73 c 27 N83-36220 *
 US-PATENT-CLASS-156-DIG.82 c 76 N88-24544 *
 US-PATENT-CLASS-156-DIG.82 c 76 N88-24545 *
 US-PATENT-CLASS-156-DIG.84 c 76 N88-24545 *
 US-PATENT-CLASS-156-DIG.88 c 76 N79-11920 *
 US-PATENT-CLASS-156-DIG.88 c 76 N80-32245 *
 US-PATENT-CLASS-156-DIG.88 c 76 N84-35113 *
 US-PATENT-CLASS-156-DIG.88 c 76 N85-30922 *
 US-PATENT-CLASS-156-DIG.88 c 76 N86-28760 *
 US-PATENT-CLASS-156-DIG.89 c 27 N83-36220 *
 US-PATENT-CLASS-156-DIG.89 c 76 N88-24545 *
 US-PATENT-CLASS-156-DIG.92 c 76 N88-24545 *
 US-PATENT-CLASS-156-DIG.96 c 76 N80-32244 *
 US-PATENT-CLASS-156-DIG.96 c 33 N81-19389 *
 US-PATENT-CLASS-156-DIG.98 c 76 N84-35113 *
 US-PATENT-CLASS-156-104 c 44 N80-18550 *
 US-PATENT-CLASS-156-153 c 24 N90-25197 *
 US-PATENT-CLASS-156-154 c 24 N78-17150 *
 US-PATENT-CLASS-156-154 c 27 N81-14077 *
 US-PATENT-CLASS-156-157 c 33 N82-26571 *
 US-PATENT-CLASS-156-160 c 27 N81-14077 *
 US-PATENT-CLASS-156-161 c 24 N81-29163 *
 US-PATENT-CLASS-156-163 c 27 N81-14077 *
 US-PATENT-CLASS-156-163 c 74 N87-28416 *
 US-PATENT-CLASS-156-165 c 24 N81-29163 *
 US-PATENT-CLASS-156-166 c 74 N85-29749 *
 US-PATENT-CLASS-156-166 c 24 N92-10070 *
 US-PATENT-CLASS-156-16 c 74 N75-12732 *
 US-PATENT-CLASS-156-172 c 15 N71-17651 *
 US-PATENT-CLASS-156-172 c 24 N91-25199 *
 US-PATENT-CLASS-156-17 c 76 N79-21910 *
 US-PATENT-CLASS-156-187 c 24 N91-25199 *
 US-PATENT-CLASS-156-18 c 26 N73-26752 *
 US-PATENT-CLASS-156-18 c 74 N75-12732 *
 US-PATENT-CLASS-156-191 c 52 N84-28389 *
 US-PATENT-CLASS-156-212 c 03 N71-26726 *
 US-PATENT-CLASS-156-212 c 24 N80-26388 *
 US-PATENT-CLASS-156-212 c 27 N81-14077 *
 US-PATENT-CLASS-156-213 c 24 N80-26388 *
 US-PATENT-CLASS-156-215 c 35 N84-12443 *
 US-PATENT-CLASS-156-218 c 54 N74-32546 *
 US-PATENT-CLASS-156-229 c 24 N77-28225 *
 US-PATENT-CLASS-156-229 c 74 N87-28416 *
 US-PATENT-CLASS-156-230 c 35 N84-12443 *
 US-PATENT-CLASS-156-233 c 35 N88-30108 *
 US-PATENT-CLASS-156-235 c 35 N84-12443 *
 US-PATENT-CLASS-156-242 c 15 N69-24322 * #
 US-PATENT-CLASS-156-242 c 37 N76-24575 *
 US-PATENT-CLASS-156-242 c 24 N81-33235 *
 US-PATENT-CLASS-156-245 c 31 N74-18089 *
 US-PATENT-CLASS-156-245 c 24 N78-17149 *
 US-PATENT-CLASS-156-245 c 24 N81-33235 *
 US-PATENT-CLASS-156-247 c 31 N74-18089 *
 US-PATENT-CLASS-156-247 c 35 N88-30108 *
 US-PATENT-CLASS-156-249 c 24 N90-25197 *
 US-PATENT-CLASS-156-250 c 03 N72-25019 *
 US-PATENT-CLASS-156-252 c 24 N81-33235 *
 US-PATENT-CLASS-156-264 c 05 N72-25121 *
 US-PATENT-CLASS-156-264 c 24 N78-17150 *
 US-PATENT-CLASS-156-264 c 24 N81-33235 *
 US-PATENT-CLASS-156-264 c 31 N83-34073 *
 US-PATENT-CLASS-156-267 c 27 N81-14077 *
 US-PATENT-CLASS-156-272.4 c 31 N85-29083 *
 US-PATENT-CLASS-156-272.4 c 35 N88-30108 *
 US-PATENT-CLASS-156-272 c 27 N80-32516 *
 US-PATENT-CLASS-156-272 c 33 N82-26571 *
 US-PATENT-CLASS-156-273.7 c 27 N85-20125 *
 US-PATENT-CLASS-156-273.9 c 31 N85-29083 *
 US-PATENT-CLASS-156-274.8 c 35 N88-30108 *
 US-PATENT-CLASS-156-275.5 c 35 N88-30108 *
 US-PATENT-CLASS-156-278 c 44 N80-18550 *
 US-PATENT-CLASS-156-283 c 24 N92-10070 *
 US-PATENT-CLASS-156-285 c 15 N71-23052 *
 US-PATENT-CLASS-156-285 c 18 N73-30532 *

US-PATENT-CLASS-156-607

US-PATENT-CLASS-156-285 c 31 N74-18089 *
 US-PATENT-CLASS-156-285 c 24 N74-27035 *
 US-PATENT-CLASS-156-285 c 24 N78-17149 *
 US-PATENT-CLASS-156-285 c 24 N78-17150 *
 US-PATENT-CLASS-156-285 c 44 N80-18550 *
 US-PATENT-CLASS-156-285 c 24 N80-26388 *
 US-PATENT-CLASS-156-285 c 24 N81-29163 *
 US-PATENT-CLASS-156-285 c 24 N81-33235 *
 US-PATENT-CLASS-156-285 c 52 N84-28389 *
 US-PATENT-CLASS-156-286 c 37 N76-21554 *
 US-PATENT-CLASS-156-286 c 37 N76-24575 *
 US-PATENT-CLASS-156-286 c 24 N78-17150 *
 US-PATENT-CLASS-156-286 c 37 N87-23981 *
 US-PATENT-CLASS-156-286 c 74 N87-28416 *
 US-PATENT-CLASS-156-289 c 24 N78-17149 *
 US-PATENT-CLASS-156-289 c 24 N78-17150 *
 US-PATENT-CLASS-156-289 c 52 N84-28389 *
 US-PATENT-CLASS-156-289 c 37 N87-23981 *
 US-PATENT-CLASS-156-289 c 24 N90-25197 *
 US-PATENT-CLASS-156-290 c 24 N81-33235 *
 US-PATENT-CLASS-156-292 c 27 N80-32516 *
 US-PATENT-CLASS-156-292 c 24 N81-17170 *
 US-PATENT-CLASS-156-294 c 37 N81-14317 *
 US-PATENT-CLASS-156-294 c 24 N81-29163 *
 US-PATENT-CLASS-156-294 c 35 N84-12443 *
 US-PATENT-CLASS-156-295 c 27 N81-14077 *
 US-PATENT-CLASS-156-297 c 27 N89-12741 *
 US-PATENT-CLASS-156-298 c 37 N87-23981 *
 US-PATENT-CLASS-156-299 c 27 N89-12741 *
 US-PATENT-CLASS-156-300 c 24 N78-17150 *
 US-PATENT-CLASS-156-303 c 44 N80-18550 *
 US-PATENT-CLASS-156-304.3 c 27 N84-22748 *
 US-PATENT-CLASS-156-304.6 c 27 N84-22748 *
 US-PATENT-CLASS-156-306 c 24 N78-17150 *
 US-PATENT-CLASS-156-307.1 c 37 N87-23981 *
 US-PATENT-CLASS-156-307.3 c 27 N82-11206 *
 US-PATENT-CLASS-156-307.3 c 37 N87-23981 *
 US-PATENT-CLASS-156-307.5 c 27 N82-11206 *
 US-PATENT-CLASS-156-307.7 c 37 N87-23981 *
 US-PATENT-CLASS-156-307.7 c 35 N88-30108 *
 US-PATENT-CLASS-156-307 c 27 N86-20561 *
 US-PATENT-CLASS-156-308 c 05 N72-25121 *
 US-PATENT-CLASS-156-309.9 c 27 N86-20561 *
 US-PATENT-CLASS-156-309 c 31 N74-18089 *
 US-PATENT-CLASS-156-309 c 27 N78-17205 *
 US-PATENT-CLASS-156-311 c 24 N78-17150 *
 US-PATENT-CLASS-156-312 c 44 N80-18550 *
 US-PATENT-CLASS-156-315 c 27 N82-24340 *
 US-PATENT-CLASS-156-320 c 15 N72-11392 *
 US-PATENT-CLASS-156-323 c 27 N81-14077 *
 US-PATENT-CLASS-156-329 c 27 N82-29456 *
 US-PATENT-CLASS-156-330 c 24 N81-14000 *
 US-PATENT-CLASS-156-331.5 c 27 N82-11206 *
 US-PATENT-CLASS-156-331.5 c 27 N86-20561 *
 US-PATENT-CLASS-156-331 c 37 N74-18126 *
 US-PATENT-CLASS-156-331 c 27 N78-17205 *
 US-PATENT-CLASS-156-331 c 24 N79-16915 *
 US-PATENT-CLASS-156-331 c 27 N81-14077 *
 US-PATENT-CLASS-156-338 c 27 N82-24340 *
 US-PATENT-CLASS-156-344 c 28 N81-14103 *
 US-PATENT-CLASS-156-344 c 31 N83-34073 *
 US-PATENT-CLASS-156-344 c 31 N90-19427 *
 US-PATENT-CLASS-156-344 c 24 N90-25197 *
 US-PATENT-CLASS-156-345 c 15 N70-42033 *
 US-PATENT-CLASS-156-345 c 31 N87-21160 *
 US-PATENT-CLASS-156-345 c 25 N91-31258 *
 US-PATENT-CLASS-156-379.7 c 33 N82-26571 *
 US-PATENT-CLASS-156-380.2 c 31 N85-29083 *
 US-PATENT-CLASS-156-382 c 37 N76-21554 *
 US-PATENT-CLASS-156-382 c 52 N84-28389 *
 US-PATENT-CLASS-156-382 c 74 N87-28416 *
 US-PATENT-CLASS-156-391 c 35 N84-12443 *
 US-PATENT-CLASS-156-3 c 17 N71-16044 *
 US-PATENT-CLASS-156-3 c 15 N71-21404 *
 US-PATENT-CLASS-156-3 c 15 N71-24047 *
 US-PATENT-CLASS-156-3 c 06 N72-21094 *
 US-PATENT-CLASS-156-423 c 35 N84-12443 *
 US-PATENT-CLASS-156-494 c 74 N87-28416 *
 US-PATENT-CLASS-156-499 c 27 N84-22748 *
 US-PATENT-CLASS-156-510 c 15 N71-17687 *
 US-PATENT-CLASS-156-510 c 03 N72-25019 *
 US-PATENT-CLASS-156-52 c 31 N79-21226 *
 US-PATENT-CLASS-156-540 c 35 N84-12443 *
 US-PATENT-CLASS-156-545 c 15 N71-24164 *
 US-PATENT-CLASS-156-556 c 37 N76-21554 *
 US-PATENT-CLASS-156-59 c 31 N83-34073 *
 US-PATENT-CLASS-156-600 c 27 N83-36220 *
 US-PATENT-CLASS-156-600 c 76 N90-23242 *
 US-PATENT-CLASS-156-600 c 76 N90-24169 *
 US-PATENT-CLASS-156-601 c 76 N77-32919 *
 US-PATENT-CLASS-156-601 c 76 N80-32245 *
 US-PATENT-CLASS-156-601 c 76 N90-24169 *
 US-PATENT-CLASS-156-602 c 76 N82-30105 *
 US-PATENT-CLASS-156-605 c 44 N80-24741 *
 US-PATENT-CLASS-156-607 c 76 N87-23286 *
 US-PATENT-CLASS-156-607 c 76 N88-24544 *

US-PATENT-CLASS-156-607

REPORT NUMBER INDEX

US-PATENT-CLASS-156-607	c 76	N90-24169 *	US-PATENT-CLASS-16-294	c 37	N86-19605 *	US-PATENT-CLASS-165-107	c 09	N71-24807 *
US-PATENT-CLASS-156-608	c 76	N79-11920	US-PATENT-CLASS-16-294	c 18	N87-14373 *	US-PATENT-CLASS-165-107	c 45	N77-32581 *
US-PATENT-CLASS-156-608	c 33	N81-19389 *	US-PATENT-CLASS-16-297	c 18	N88-23827 *	US-PATENT-CLASS-165-109	c 34	N74-15093 *
US-PATENT-CLASS-156-608	c 76	N82-30105 *	US-PATENT-CLASS-16-326	c 18	N88-23827 *	US-PATENT-CLASS-165-110	c 44	N76-31667 *
US-PATENT-CLASS-156-608	c 76	N83-20789 *	US-PATENT-CLASS-16-332	c 18	N88-23827 *	US-PATENT-CLASS-165-110	c 77	N75-20139 *
US-PATENT-CLASS-156-608	c 76	N83-35888 *	US-PATENT-CLASS-16-345	c 18	N88-23827 *	US-PATENT-CLASS-165-111	c 77	N75-20139 *
US-PATENT-CLASS-156-608	c 76	N84-35113	US-PATENT-CLASS-16-347	c 18	N88-23827 *	US-PATENT-CLASS-165-112	c 33	N71-24276 *
US-PATENT-CLASS-156-608	c 76	N84-35113	US-PATENT-CLASS-16-349	c 18	N88-23827 *	US-PATENT-CLASS-165-112	c 34	N83-34221 *
US-PATENT-CLASS-156-608	c 76	N90-23242	US-PATENT-CLASS-16-370	c 18	N87-14373 *	US-PATENT-CLASS-165-133	c 33	N71-16277 *
US-PATENT-CLASS-156-608	c 76	N91-15898 *	US-PATENT-CLASS-16-390	c 31	N86-19479 *	US-PATENT-CLASS-165-133	c 33	N71-25353 *
US-PATENT-CLASS-156-608	c 76	N92-21499 *	US-PATENT-CLASS-160-23R	c 37	N87-17036 *	US-PATENT-CLASS-165-133	c 33	N72-20915 *
US-PATENT-CLASS-156-60	c 15	N71-22713	US-PATENT-CLASS-160-265	c 37	N87-17036 *	US-PATENT-CLASS-165-133	c 44	N76-23675 *
US-PATENT-CLASS-156-610	c 76	N76-25049 *	US-PATENT-CLASS-161-115	c 18	N70-41583 *	US-PATENT-CLASS-165-133	c 34	N90-20323 *
US-PATENT-CLASS-156-610	c 27	N83-36220	US-PATENT-CLASS-161-116	c 37	N74-23064 *	US-PATENT-CLASS-165-134R	c 74	N83-19596 *
US-PATENT-CLASS-156-610	c 76	N86-28760	US-PATENT-CLASS-161-127	c 18	N72-25540 *	US-PATENT-CLASS-165-134	c 34	N78-17336 *
US-PATENT-CLASS-156-612	c 76	N76-25049 *	US-PATENT-CLASS-161-127	c 18	N72-25541 *	US-PATENT-CLASS-165-135	c 34	N84-22903 *
US-PATENT-CLASS-156-612	c 44	N76-28635 *	US-PATENT-CLASS-161-161	c 33	N71-25351 *	US-PATENT-CLASS-165-138	c 09	N71-24807 *
US-PATENT-CLASS-156-612	c 76	N85-30922	US-PATENT-CLASS-161-182	c 15	N69-39735 *	US-PATENT-CLASS-165-13	c 34	N88-23958 *
US-PATENT-CLASS-156-613	c 76	N76-25049 *	US-PATENT-CLASS-161-182	c 37	N74-18126 *	US-PATENT-CLASS-165-141	c 28	N73-32606 *
US-PATENT-CLASS-156-613	c 44	N76-28635 *	US-PATENT-CLASS-161-189	c 23	N71-15978 *	US-PATENT-CLASS-165-146	c 34	N79-13289 *
US-PATENT-CLASS-156-614	c 44	N76-28635 *	US-PATENT-CLASS-161-192	c 37	N74-18126 *	US-PATENT-CLASS-165-155	c 33	N72-20915 *
US-PATENT-CLASS-156-616.41	c 76	N90-20896 *	US-PATENT-CLASS-161-196	c 37	N74-21063 *	US-PATENT-CLASS-165-156	c 25	N90-11824 *
US-PATENT-CLASS-156-616.4	c 76	N90-20896 *	US-PATENT-CLASS-161-214	c 06	N73-27980 *	US-PATENT-CLASS-165-158	c 33	N72-20915 *
US-PATENT-CLASS-156-617.1	c 76	N91-15898 *	US-PATENT-CLASS-161-227	c 06	N73-27980 *	US-PATENT-CLASS-165-161	c 33	N72-20915 *
US-PATENT-CLASS-156-617.1	c 76	N92-21499 *	US-PATENT-CLASS-161-42	c 37	N74-18126 *	US-PATENT-CLASS-165-164	c 34	N77-10463 *
US-PATENT-CLASS-156-617-H	c 76	N87-23286 *	US-PATENT-CLASS-161-43	c 37	N74-18126 *	US-PATENT-CLASS-165-166	c 54	N77-32722 *
US-PATENT-CLASS-156-617-SP	c 76	N84-35113 *	US-PATENT-CLASS-161-67	c 33	N72-17947 *	US-PATENT-CLASS-165-169	c 34	N79-13288 *
US-PATENT-CLASS-156-617-SP	c 76	N87-23286 *	US-PATENT-CLASS-161-68	c 18	N71-21651 *	US-PATENT-CLASS-165-169	c 34	N79-13289 *
US-PATENT-CLASS-156-617-V	c 76	N84-35113 *	US-PATENT-CLASS-161-68	c 18	N72-25540 *	US-PATENT-CLASS-165-169	c 31	N80-32583 *
US-PATENT-CLASS-156-617SP	c 76	N79-11920	US-PATENT-CLASS-161-68	c 18	N72-25541 *	US-PATENT-CLASS-165-170	c 34	N77-10463 *
US-PATENT-CLASS-156-617SP	c 76	N79-23798 *	US-PATENT-CLASS-161-69	c 33	N71-24858 *	US-PATENT-CLASS-165-170	c 34	N88-29132 *
US-PATENT-CLASS-156-617SP	c 44	N80-24741 *	US-PATENT-CLASS-161-7	c 18	N72-25540 *	US-PATENT-CLASS-165-174	c 33	N72-20915 *
US-PATENT-CLASS-156-617SP	c 76	N80-32245 *	US-PATENT-CLASS-161-7	c 18	N72-25541 *	US-PATENT-CLASS-165-180	c 34	N90-20323 *
US-PATENT-CLASS-156-619	c 76	N77-32919 *	US-PATENT-CLASS-161-89	c 17	N71-28747 *	US-PATENT-CLASS-165-185	c 28	N73-32606 *
US-PATENT-CLASS-156-620.1	c 76	N91-15898 *	US-PATENT-CLASS-161-92	c 37	N75-26371 *	US-PATENT-CLASS-165-185	c 34	N83-28356 *
US-PATENT-CLASS-156-620.1	c 76	N92-21499 *	US-PATENT-CLASS-161-93	c 18	N73-12604 *	US-PATENT-CLASS-165-185	c 31	N91-27385 *
US-PATENT-CLASS-156-620.3	c 76	N92-21499 *	US-PATENT-CLASS-161-93	c 37	N74-18126 *	US-PATENT-CLASS-165-1	c 09	N70-41717 *
US-PATENT-CLASS-156-620.4	c 76	N92-21499 *	US-PATENT-CLASS-161-93	c 37	N75-26371 *	US-PATENT-CLASS-165-1	c 34	N75-12222 *
US-PATENT-CLASS-156-620.76	c 76	N88-24545 *	US-PATENT-CLASS-162-102	c 24	N76-14204 *	US-PATENT-CLASS-165-1	c 34	N85-29180 *
US-PATENT-CLASS-156-620	c 76	N77-32919 *	US-PATENT-CLASS-162-14	c 85	N79-17747 *	US-PATENT-CLASS-165-1	c 34	N87-22950 *
US-PATENT-CLASS-156-621	c 76	N88-14835 *	US-PATENT-CLASS-162-153	c 24	N76-14204 *	US-PATENT-CLASS-165-1	c 34	N88-23958 *
US-PATENT-CLASS-156-621	c 76	N88-24544 *	US-PATENT-CLASS-162-222	c 24	N76-14204 *	US-PATENT-CLASS-165-1	c 31	N91-27385 *
US-PATENT-CLASS-156-622	c 76	N88-14835 *	US-PATENT-CLASS-162-228	c 24	N76-14204 *	US-PATENT-CLASS-165-1	c 54	N92-21589 *
US-PATENT-CLASS-156-622	c 76	N88-14835 *	US-PATENT-CLASS-162-29	c 85	N79-17747 *	US-PATENT-CLASS-165-20	c 03	N72-28025 *
US-PATENT-CLASS-156-623Q	c 76	N85-29800 *	US-PATENT-CLASS-164-105	c 20	N79-21123 *	US-PATENT-CLASS-165-20	c 35	N91-21496 *
US-PATENT-CLASS-156-624	c 76	N83-20789 *	US-PATENT-CLASS-164-113	c 31	N90-21216 *	US-PATENT-CLASS-165-2	c 33	N71-24876 *
US-PATENT-CLASS-156-624	c 76	N86-28760 *	US-PATENT-CLASS-164-119	c 24	N84-16262 *	US-PATENT-CLASS-165-2	c 35	N74-15093 *
US-PATENT-CLASS-156-624	c 76	N88-14835 *	US-PATENT-CLASS-164-122.1	c 26	N91-14462 *	US-PATENT-CLASS-165-2	c 44	N77-32581 *
US-PATENT-CLASS-156-624	c 76	N88-24544 *	US-PATENT-CLASS-164-132	c 37	N76-23570 *	US-PATENT-CLASS-165-2	c 44	N78-17460 *
US-PATENT-CLASS-156-625	c 24	N91-25199 *	US-PATENT-CLASS-164-284	c 31	N90-21216 *	US-PATENT-CLASS-165-2	c 51	N79-10694 *
US-PATENT-CLASS-156-630	c 35	N84-22930 *	US-PATENT-CLASS-164-331.12	c 27	N83-34041 *	US-PATENT-CLASS-165-2	c 27	N83-36220 *
US-PATENT-CLASS-156-633	c 44	N78-25529 *	US-PATENT-CLASS-164-338.1	c 26	N91-14462 *	US-PATENT-CLASS-165-30	c 51	N79-10694 *
US-PATENT-CLASS-156-634	c 24	N91-25199 *	US-PATENT-CLASS-164-60	c 24	N77-27187 *	US-PATENT-CLASS-165-30	c 31	N79-17029 *
US-PATENT-CLASS-156-635	c 76	N83-20789 *	US-PATENT-CLASS-165-DIG.6	c 34	N84-22903 *	US-PATENT-CLASS-165-30	c 35	N86-20750 *
US-PATENT-CLASS-156-637	c 76	N92-10681 *	US-PATENT-CLASS-165-104.14	c 05	N81-26114 *	US-PATENT-CLASS-165-32	c 31	N73-30829 *
US-PATENT-CLASS-156-643	c 52	N84-23095 *	US-PATENT-CLASS-165-104.14	c 34	N85-29179 *	US-PATENT-CLASS-165-32	c 33	N73-32818 *
US-PATENT-CLASS-156-643	c 31	N87-21160 *	US-PATENT-CLASS-165-104.14	c 34	N86-27593 *	US-PATENT-CLASS-165-32	c 34	N78-17337 *
US-PATENT-CLASS-156-643	c 25	N91-31258 *	US-PATENT-CLASS-165-104.14	c 34	N87-22950 *	US-PATENT-CLASS-165-32	c 34	N79-31523 *
US-PATENT-CLASS-156-643	c 76	N92-22040 *	US-PATENT-CLASS-165-104.14	c 34	N88-23958 *	US-PATENT-CLASS-165-32	c 44	N80-20810 *
US-PATENT-CLASS-156-644	c 52	N84-23095 *	US-PATENT-CLASS-165-104.14	c 34	N89-14392 *	US-PATENT-CLASS-165-32	c 33	N82-24419 *
US-PATENT-CLASS-156-645	c 27	N77-32308 *	US-PATENT-CLASS-165-104.14	c 34	N91-21473 *	US-PATENT-CLASS-165-32	c 34	N83-28356 *
US-PATENT-CLASS-156-646	c 31	N87-21160 *	US-PATENT-CLASS-165-104.25	c 34	N87-22950 *	US-PATENT-CLASS-165-32	c 34	N83-35307 *
US-PATENT-CLASS-156-647	c 33	N81-26360 *	US-PATENT-CLASS-165-104.26	c 74	N83-19596 *	US-PATENT-CLASS-165-32	c 34	N84-14461 *
US-PATENT-CLASS-156-648	c 33	N81-26360 *	US-PATENT-CLASS-165-104.26	c 34	N83-35307 *	US-PATENT-CLASS-165-32	c 34	N85-29179 *
US-PATENT-CLASS-156-649	c 33	N81-26360 *	US-PATENT-CLASS-165-104.26	c 34	N85-21568 *	US-PATENT-CLASS-165-32	c 34	N90-21999 *
US-PATENT-CLASS-156-654	c 76	N83-20789 *	US-PATENT-CLASS-165-104.26	c 34	N85-29180 *	US-PATENT-CLASS-165-34	c 34	N87-22950 *
US-PATENT-CLASS-156-654	c 35	N84-22930 *	US-PATENT-CLASS-165-104.26	c 34	N86-27593 *	US-PATENT-CLASS-165-3	c 03	N72-28025 *
US-PATENT-CLASS-156-659.1	c 31	N87-21160 *	US-PATENT-CLASS-165-104.26	c 34	N87-22950 *	US-PATENT-CLASS-165-41	c 34	N84-14461 *
US-PATENT-CLASS-156-661.1	c 31	N87-21160 *	US-PATENT-CLASS-165-104.26	c 34	N88-29133 *	US-PATENT-CLASS-165-41	c 34	N86-27593 *
US-PATENT-CLASS-156-662	c 76	N83-20789 *	US-PATENT-CLASS-165-104.26	c 34	N89-14392 *	US-PATENT-CLASS-165-41	c 34	N88-23958 *
US-PATENT-CLASS-156-663	c 27	N77-32308 *	US-PATENT-CLASS-165-104.26	c 37	N90-23541 *	US-PATENT-CLASS-165-41	c 35	N89-12048 *
US-PATENT-CLASS-156-668	c 52	N84-23095 *	US-PATENT-CLASS-165-104.26	c 31	N90-23587 *	US-PATENT-CLASS-165-41	c 34	N90-20323 *
US-PATENT-CLASS-156-668	c 25	N91-31258 *	US-PATENT-CLASS-165-104.31	c 31	N91-15424 *	US-PATENT-CLASS-165-41	c 27	N90-23541 *
US-PATENT-CLASS-156-66	c 15	N72-11392	US-PATENT-CLASS-165-104	c 33	N71-25353 *	US-PATENT-CLASS-165-41	c 31	N90-23587 *
US-PATENT-CLASS-156-71	c 33	N82-26571 *	US-PATENT-CLASS-165-104	c 34	N90-20323 *	US-PATENT-CLASS-165-41	c 31	N91-15424 *
US-PATENT-CLASS-156-71	c 35	N84-12443 *	US-PATENT-CLASS-165-105	c 09	N71-24807 *	US-PATENT-CLASS-165-41	c 54	N92-21589 *
US-PATENT-CLASS-156-74	c 24	N81-29163 *	US-PATENT-CLASS-165-105	c 33	N71-25353 *	US-PATENT-CLASS-165-44	c 15	N71-26611 *
US-PATENT-CLASS-156-7	c 74	N75-12732 *	US-PATENT-CLASS-165-105	c 33	N72-17948 *	US-PATENT-CLASS-165-46	c 05	N71-19439 *
US-PATENT-CLASS-156-81	c 27	N84-22748 *	US-PATENT-CLASS-165-105	c 31	N73-30829 *	US-PATENT-CLASS-165-46	c 05	N71-24147 *
US-PATENT-CLASS-156-84	c 15	N72-16330 *	US-PATENT-CLASS-165-105	c 28	N73-32606 *	US-PATENT-CLASS-165-46	c 05	N73-20137 *
US-PATENT-CLASS-156-84	c 37	N82-24491 *	US-PATENT-CLASS-165-105	c 34	N74-18552 *	US-PATENT-CLASS-165-46	c 05	N73-26071 *
US-PATENT-CLASS-156-85	c 37	N82-24491 *	US-PATENT-CLASS-165-105	c 34	N75-12222 *	US-PATENT-CLASS-165-46	c 54	N82-29002 *
US-PATENT-CLASS-156-86	c 15	N72-16330 *	US-PATENT-CLASS-165-105	c 44	N75-32581 *	US-PATENT-CLASS-165-46	c 34	N90-21999 *
US-PATENT-CLASS-156-86	c 37	N82-24491 *	US-PATENT-CLASS-165-105	c 44	N76-16612 *	US-PATENT-CLASS-165-47	c 33	N71-29052 *
US-PATENT-CLASS-156-87	c 37	N87-23981 *	US-PATENT-CLASS-165-105	c 34	N76-17317 *	US-PATENT-CLASS-165-47	c 31	N73-30829 *
US-PATENT-CLASS-156-89	c 37	N75-15992 *	US-PATENT-CLASS-165-105	c 34	N76-27515 *	US-PATENT-CLASS-165-47	c 34	N75-12222 *
US-PATENT-CLASS-156-89	c 24	N79-25143 *	US-PATENT-CLASS-165-105	c 34	N77-32413 *	US-PATENT-CLASS-165-48.2	c 54	N92-21589 *
US-PATENT-CLASS-156-89	c 27	N84-22748 *	US-PATENT-CLASS-165-105	c 25	N78-10224 *	US-PATENT-CLASS-165-48R	c 35	N85-29214 *
US-PATENT-CLASS-156-904	c 31	N87-21160 *	US-PATENT-CLASS-165-105	c 34	N78-17336 *	US-PATENT-CLASS-165-58	c 27	N83-36220 *
US-PATENT-CLASS-156-905	c 35	N84-22930 *	US-PATENT-CLASS-165-105	c 34	N78-17337 *	US-PATENT-CLASS-165-61	c 34	N83-34221 *
US-PATENT-CLASS-156-94	c 32	N74-27612 *	US-PATENT-CLASS-165-105	c 44	N79-18443 *	US-PATENT-CLASS-165-61	c 35	N85-29214 *
US-PATENT-CLASS-156-94	c 24	N74-30001 *	US-PATENT-CLASS-165-105	c 37	N79-28549 *	US-PATENT-CLASS-165-61	c 35	N86-20750 *
US-PATENT-CLASS-156-99	c 37	N75-15992 *	US-PATENT-CLASS-165-105	c 34	N79-31523 *	US-PATENT-CLASS-165-61	c 31	N89-12785 *
US-PATENT-CLASS-159-3	c 25	N88-23846 *	US-PATENT-CLASS-165-105	c 35	N81-14287 *	US-PATENT-CLASS-165-64	c 35	N85-29214 *
US-PATENT-CLASS-159-48.2	c 25	N88-23846 *	US-PATENT-CLASS-165-106	c 33	N73-32818 *	US-PATENT-CLASS-165-65	c 35	N86-20750 *
US-PATENT-CLASS-159-900	c 25	N88-23846 *	US-PATENT-CLASS-165-106	c 34	N76-17317 *	US-PATENT-CLASS-165-76	c 34	N83-28356 *
US-PATENT-CLASS-16-242	c 31	N86-19479 *						
US-PATENT-CLASS-16-292	c 18	N88-23827 *						

REPORT NUMBER INDEX

US-PATENT-CLASS-181-0.5

US-PATENT-CLASS-165-76	c 37	N86-32736 *	#	US-PATENT-CLASS-177-211	c 35	N74-26945 *	US-PATENT-CLASS-178-88	c 07	N71-12392 *
US-PATENT-CLASS-165-78	c 34	N90-21999 *		US-PATENT-CLASS-177-246	c 35	N74-26945 *	US-PATENT-CLASS-178-88	c 33	N74-12887 *
US-PATENT-CLASS-165-80E	c 34	N83-34221 *		US-PATENT-CLASS-177-260	c 35	N85-20294 *	US-PATENT-CLASS-178-88	c 32	N74-20809 *
US-PATENT-CLASS-165-81	c 34	N88-29132 *		US-PATENT-CLASS-178-DIG.12	c 07	N72-12081 *	US-PATENT-CLASS-178-88	c 33	N74-27705 *
US-PATENT-CLASS-165-81	c 25	N90-11824 *		US-PATENT-CLASS-178-DIG.12	c 32	N75-21485 *	US-PATENT-CLASS-178-88	c 33	N76-14371 *
US-PATENT-CLASS-165-83	c 25	N90-11824 *		US-PATENT-CLASS-178-DIG.1	c 36	N74-20009 *	US-PATENT-CLASS-178-88	c 32	N76-16249 *
US-PATENT-CLASS-165-86	c 15	N71-26611 *		US-PATENT-CLASS-178-DIG.1	c 33	N75-30431 *	US-PATENT-CLASS-178-88	c 32	N77-10392 *
US-PATENT-CLASS-165-86	c 33	N71-29046 *		US-PATENT-CLASS-178-DIG.1	c 45	N76-17656 *	US-PATENT-CLASS-178-88	c 32	N77-24331 *
US-PATENT-CLASS-165-86	c 34	N91-21473 *		US-PATENT-CLASS-178-DIG.20	c 18	N76-14186 *	US-PATENT-CLASS-179-IDM	c 71	N79-23753 *
US-PATENT-CLASS-165-86	c 54	N92-21589 *		US-PATENT-CLASS-178-DIG.20	c 23	N72-27728 *	US-PATENT-CLASS-179-IMF	c 71	N79-23753 *
US-PATENT-CLASS-165-904	c 35	N89-12048 *		US-PATENT-CLASS-178-DIG.20	c 35	N75-19613 *	US-PATENT-CLASS-179-IMN	c 32	N79-23310 *
US-PATENT-CLASS-165-904	c 31	N91-15424 *		US-PATENT-CLASS-178-DIG.21	c 16	N72-13437 *	US-PATENT-CLASS-179-1P	c 10	N73-12244 *
US-PATENT-CLASS-165-904	c 54	N92-21589 *		US-PATENT-CLASS-178-DIG.23	c 07	N73-30115 *	US-PATENT-CLASS-179-1R	c 07	N71-33108 *
US-PATENT-CLASS-165-905	c 34	N88-29133 *		US-PATENT-CLASS-178-DIG.25	c 74	N75-25706 *	US-PATENT-CLASS-179-1SA	c 10	N73-25240 *
US-PATENT-CLASS-165-905	c 34	N90-20323 *		US-PATENT-CLASS-178-DIG.28	c 08	N72-22164 *	US-PATENT-CLASS-179-1SA	c 32	N76-31372 *
US-PATENT-CLASS-165-905	c 27	N90-23541 *		US-PATENT-CLASS-178-DIG.29	c 35	N75-25123 *	US-PATENT-CLASS-179-1SA	c 32	N77-30309 *
US-PATENT-CLASS-165-96	c 33	N70-36847 *		US-PATENT-CLASS-178-DIG.32	c 71	N74-21014 *	US-PATENT-CLASS-179-1SP	c 32	N77-30309 *
US-PATENT-CLASS-165-96	c 33	N71-22890 *		US-PATENT-CLASS-178-DIG.35	c 09	N76-24280 *	US-PATENT-CLASS-179-1VC	c 07	N71-33108 *
US-PATENT-CLASS-165-96	c 31	N73-30829 *		US-PATENT-CLASS-178-DIG.36	c 08	N72-22164 *	US-PATENT-CLASS-179-100.2A	c 21	N73-13644 *
US-PATENT-CLASS-165-96	c 33	N73-32818 *		US-PATENT-CLASS-178-DIG.6	c 10	N73-13235 *	US-PATENT-CLASS-179-100.2A	c 32	N74-27612 *
US-PATENT-CLASS-165-96	c 34	N78-17337 *		US-PATENT-CLASS-178-DIG.8	c 14	N72-25412 *	US-PATENT-CLASS-179-100.2B	c 32	N74-27612 *
US-PATENT-CLASS-165-96	c 34	N84-14461 *		US-PATENT-CLASS-178-DIG.8	c 45	N76-17656 *	US-PATENT-CLASS-179-100.2CH	c 36	N74-13205 *
US-PATENT-CLASS-165-96	c 31	N89-12785 *		US-PATENT-CLASS-178-15	c 33	N75-19517 *	US-PATENT-CLASS-179-100.2CH	c 35	N78-29421 *
US-PATENT-CLASS-165-96	c 34	N90-21999 *		US-PATENT-CLASS-178-18	c 10	N73-32143 *	US-PATENT-CLASS-179-100.2CH	c 35	N79-16246 *
US-PATENT-CLASS-165-96	c 34	N91-21473 *		US-PATENT-CLASS-178-22.16	c 32	N82-31583 *	US-PATENT-CLASS-179-100.2C	c 35	N77-21392 *
US-PATENT-CLASS-166-222	c 43	N81-26509 *		US-PATENT-CLASS-178-22.17	c 32	N82-31583 *	US-PATENT-CLASS-179-100.2K	c 07	N72-21119 *
US-PATENT-CLASS-166-248	c 43	N78-14452 *		US-PATENT-CLASS-178-5.2R	c 09	N71-28618 *	US-PATENT-CLASS-179-100.2MD	c 35	N74-11283 *
US-PATENT-CLASS-166-259	c 43	N78-14452 *		US-PATENT-CLASS-178-5.2R	c 07	N72-17109 *	US-PATENT-CLASS-179-100.2T	c 35	N74-11283 *
US-PATENT-CLASS-166-267	c 25	N82-23282 *		US-PATENT-CLASS-178-5.4	c 07	N72-17109 *	US-PATENT-CLASS-179-100.2	c 09	N69-24329 *
US-PATENT-CLASS-166-303	c 25	N82-23282 *		US-PATENT-CLASS-178-5.8R	c 71	N74-21014 *	US-PATENT-CLASS-179-100.2	c 09	N71-25866 *
US-PATENT-CLASS-166-343	c 18	N90-20126 *		US-PATENT-CLASS-178-50	c 08	N72-18184 *	US-PATENT-CLASS-179-100.2	c 08	N71-27210 *
US-PATENT-CLASS-166-63	c 46	N79-22679 *		US-PATENT-CLASS-178-50	c 08	N72-25208 *	US-PATENT-CLASS-179-100.2	c 08	N71-27255 *
US-PATENT-CLASS-166-77	c 43	N81-26509 *		US-PATENT-CLASS-178-52	c 08	N72-22162 *	US-PATENT-CLASS-179-100.2CA	c 09	N72-11224 *
US-PATENT-CLASS-169-28	c 12	N72-21310 *		US-PATENT-CLASS-178-54CF	c 09	N71-28618 *	US-PATENT-CLASS-179-100.2MD	c 09	N72-11224 *
US-PATENT-CLASS-169-36	c 12	N72-21310 *		US-PATENT-CLASS-178-54PE	c 09	N71-28618 *	US-PATENT-CLASS-179-107R	c 33	N78-10375 *
US-PATENT-CLASS-169-47	c 25	N83-36118 *		US-PATENT-CLASS-178-58A	c 32	N75-21486 *	US-PATENT-CLASS-179-15.55R	c 08	N72-11171 *
US-PATENT-CLASS-169-62	c 31	N81-14137 *		US-PATENT-CLASS-178-58R	c 32	N80-18252 *	US-PATENT-CLASS-179-15.55R	c 08	N72-33172 *
US-PATENT-CLASS-169-70	c 31	N81-14137 *		US-PATENT-CLASS-178-6.5	c 23	N72-27728 *	US-PATENT-CLASS-179-15AN	c 07	N73-16121 *
US-PATENT-CLASS-173-131	c 15	N73-13463 *		US-PATENT-CLASS-178-6.6DD	c 07	N73-30115 *	US-PATENT-CLASS-179-15AT	c 32	N74-30524 *
US-PATENT-CLASS-173-132	c 37	N76-18454 *		US-PATENT-CLASS-178-6.6DD	c 35	N74-11283 *	US-PATENT-CLASS-179-15A	c 08	N72-22162 *
US-PATENT-CLASS-174-DIG.6	c 26	N73-26752 *		US-PATENT-CLASS-178-6.6	c 07	N71-11300 *	US-PATENT-CLASS-179-15A	c 07	N73-26118 *
US-PATENT-CLASS-174-DIG.6	c 26	N73-32571 *		US-PATENT-CLASS-178-6.6	c 07	N71-26102 *	US-PATENT-CLASS-179-15BA	c 60	N77-12721 *
US-PATENT-CLASS-174-DIG.8	c 33	N74-22865 *		US-PATENT-CLASS-178-6.7R	c 35	N74-15831 *	US-PATENT-CLASS-179-15BA	c 32	N80-18252 *
US-PATENT-CLASS-174-106R	c 09	N72-22198 *		US-PATENT-CLASS-178-6.7	c 07	N72-17109 *	US-PATENT-CLASS-179-15BC	c 08	N72-25208 *
US-PATENT-CLASS-174-110.3	c 14	N71-27186 *		US-PATENT-CLASS-178-6.8	c 08	N72-22164 *	US-PATENT-CLASS-179-15BC	c 07	N73-16121 *
US-PATENT-CLASS-174-111	c 33	N74-27683 *		US-PATENT-CLASS-178-6.8	c 14	N72-25412 *	US-PATENT-CLASS-179-15BC	c 32	N74-30523 *
US-PATENT-CLASS-174-115	c 09	N70-38201 *		US-PATENT-CLASS-178-6.8	c 07	N73-30115 *	US-PATENT-CLASS-179-15BC	c 33	N75-26243 *
US-PATENT-CLASS-174-117FF	c 09	N72-22198 *		US-PATENT-CLASS-178-6.8	c 33	N75-30431 *	US-PATENT-CLASS-179-15BL	c 08	N72-22162 *
US-PATENT-CLASS-174-126CP	c 26	N73-32571 *		US-PATENT-CLASS-178-6.8	c 45	N76-17656 *	US-PATENT-CLASS-179-15BM	c 07	N73-26118 *
US-PATENT-CLASS-174-142	c 33	N80-18286 *		US-PATENT-CLASS-178-66R	c 32	N75-24981 *	US-PATENT-CLASS-179-15BS	c 10	N71-33407 *
US-PATENT-CLASS-174-145	c 33	N76-16332 *		US-PATENT-CLASS-178-66	c 09	N71-25866 *	US-PATENT-CLASS-179-15BS	c 07	N72-20140 *
US-PATENT-CLASS-174-148	c 33	N76-16332 *		US-PATENT-CLASS-178-66	c 08	N72-18184 *	US-PATENT-CLASS-179-15BS	c 07	N73-30115 *
US-PATENT-CLASS-174-15CA	c 31	N79-17029 *		US-PATENT-CLASS-178-67	c 08	N70-41961 *	US-PATENT-CLASS-179-15BS	c 32	N75-26195 *
US-PATENT-CLASS-174-15C	c 33	N74-27683 *		US-PATENT-CLASS-178-67	c 32	N74-26654 *	US-PATENT-CLASS-179-15BS	c 60	N77-19760 *
US-PATENT-CLASS-174-18	c 09	N69-21542 *	#	US-PATENT-CLASS-178-69.1	c 32	N78-15323 *	US-PATENT-CLASS-179-15BV	c 07	N72-25172 *
US-PATENT-CLASS-174-28	c 07	N71-27191 *		US-PATENT-CLASS-178-69.4R	c 32	N74-10132 *	US-PATENT-CLASS-179-15BY	c 32	N74-30524 *
US-PATENT-CLASS-174-28	c 33	N74-27683 *		US-PATENT-CLASS-178-69.5R	c 07	N72-20140 *	US-PATENT-CLASS-179-15FD	c 08	N72-25208 *
US-PATENT-CLASS-174-35	c 07	N71-19436 *		US-PATENT-CLASS-178-69.5R	c 32	N75-26195 *	US-PATENT-CLASS-179-15FS	c 07	N73-28012 *
US-PATENT-CLASS-174-36	c 09	N72-22198 *		US-PATENT-CLASS-178-69.5R	c 33	N76-14371 *	US-PATENT-CLASS-179-15	c 07	N69-39978 *
US-PATENT-CLASS-174-52-PE	c 33	N88-23941 *		US-PATENT-CLASS-178-69.5R	c 60	N77-19760 *	US-PATENT-CLASS-179-15	c 07	N71-20814 *
US-PATENT-CLASS-174-52-R	c 33	N88-23941 *		US-PATENT-CLASS-178-69.5	c 07	N71-11281 *	US-PATENT-CLASS-179-15	c 07	N71-24621 *
US-PATENT-CLASS-174-52-S	c 33	N88-23941 *		US-PATENT-CLASS-178-69.5	c 10	N71-19468 *	US-PATENT-CLASS-179-15	c 07	N71-24622 *
US-PATENT-CLASS-174-52S	c 15	N73-14469 *		US-PATENT-CLASS-178-69.5	c 10	N71-25865 *	US-PATENT-CLASS-179-15	c 08	N72-18184 *
US-PATENT-CLASS-174-68.5	c 15	N70-41960 *		US-PATENT-CLASS-178-69.5	c 10	N71-33407 *	US-PATENT-CLASS-179-175.1A	c 14	N73-27379 *
US-PATENT-CLASS-174-69	c 33	N74-22865 *		US-PATENT-CLASS-178-69.5	c 07	N72-25173 *	US-PATENT-CLASS-179-175.1A	c 33	N78-10375 *
US-PATENT-CLASS-174-70R	c 33	N74-22865 *		US-PATENT-CLASS-178-69.5	c 07	N73-13149 *	US-PATENT-CLASS-179-18BC	c 32	N86-27513 *
US-PATENT-CLASS-174-72	c 03	N69-21539 *	#	US-PATENT-CLASS-178-69.5	c 09	N73-28084 *	US-PATENT-CLASS-179-18GF	c 33	N82-29538 *
US-PATENT-CLASS-174-73R	c 33	N80-18286 *		US-PATENT-CLASS-178-69.5	c 17	N76-22245 *	US-PATENT-CLASS-179-1	c 07	N71-26181 *
US-PATENT-CLASS-174-84	c 15	N72-17455 *		US-PATENT-CLASS-178-69A	c 35	N75-21582 *	US-PATENT-CLASS-179-1	c 31	N71-33160 *
US-PATENT-CLASS-175-1	c 46	N79-22679 *		US-PATENT-CLASS-178-69C	c 32	N76-16249 *	US-PATENT-CLASS-179-27CA	c 32	N79-23310 *
US-PATENT-CLASS-175-26	c 15	N73-32362 *		US-PATENT-CLASS-178-6	c 07	N71-19433 *	US-PATENT-CLASS-179-78	c 33	N81-27397 *
US-PATENT-CLASS-175-310	c 15	N70-42034 *		US-PATENT-CLASS-178-6	c 09	N71-19449 *	US-PATENT-CLASS-179-84VF	c 32	N79-23310 *
US-PATENT-CLASS-175-323	c 14	N69-21923 *	#	US-PATENT-CLASS-178-6	c 07	N71-23026 *	US-PATENT-CLASS-179-91R	c 74	N78-14889 *
US-PATENT-CLASS-175-45	c 35	N84-33768 *		US-PATENT-CLASS-178-6	c 07	N71-26579 *	US-PATENT-CLASS-18-26	c 06	N71-22975 *
US-PATENT-CLASS-175-78	c 46	N80-10709 *		US-PATENT-CLASS-178-6	c 07	N72-12081 *	US-PATENT-CLASS-18-39	c 27	N70-34783 *
US-PATENT-CLASS-176-11	c 24	N72-33681 *		US-PATENT-CLASS-178-6	c 16	N72-13437 *	US-PATENT-CLASS-18-6	c 15	N71-26721 *
US-PATENT-CLASS-176-11	c 25	N76-27383 *		US-PATENT-CLASS-178-6	c 10	N73-13235 *	US-PATENT-CLASS-180-105E	c 11	N72-20244 *
US-PATENT-CLASS-176-11	c 25	N76-29379 *		US-PATENT-CLASS-178-6	c 36	N74-20009 *	US-PATENT-CLASS-180-118	c 31	N71-15689 *
US-PATENT-CLASS-176-11	c 25	N78-27226 *		US-PATENT-CLASS-178-7.1	c 07	N71-24612 *	US-PATENT-CLASS-180-121	c 31	N71-15689 *
US-PATENT-CLASS-176-14	c 25	N76-29379 *		US-PATENT-CLASS-178-7.1	c 07	N71-27341 *	US-PATENT-CLASS-180-125	c 15	N72-17451 *
US-PATENT-CLASS-176-169	c 22	N73-32528 *		US-PATENT-CLASS-178-7.1	c 09	N72-17156 *	US-PATENT-CLASS-180-127	c 15	N72-17451 *
US-PATENT-CLASS-176-16	c 25	N76-27383 *		US-PATENT-CLASS-178-7.1	c 32	N74-19790 *	US-PATENT-CLASS-180-168	c 35	N84-33769 *
US-PATENT-CLASS-176-16	c 25	N76-29379 *		US-PATENT-CLASS-178-7.1	c 36	N75-19652 *	US-PATENT-CLASS-180-19.2	c 85	N87-21755 *
US-PATENT-CLASS-176-16	c 25	N78-27226 *		US-PATENT-CLASS-178-7.2R	c 08	N72-22164 *	US-PATENT-CLASS-180-305	c 85	N87-21755 *
US-PATENT-CLASS-176-22	c 73	N78-28913 *		US-PATENT-CLASS-178-7.2	c 14	N70-41807 *	US-PATENT-CLASS-180-41	c 11	N73-26238 *
US-PATENT-CLASS-176-33	c 73	N78-28913 *		US-PATENT-CLASS-178-7.2	c 71	N74-21014 *	US-PATENT-CLASS-180-6.5	c 11	N73-26238 *
US-PATENT-CLASS-176-39	c 73	N78-19920 *		US-PATENT-CLASS-178-7.2	c 35	N75-25123 *	US-PATENT-CLASS-180-7R	c 11	N73-26238 *
US-PATENT-CLASS-176-39	c 73	N78-28913 *		US-PATENT-CLASS-178-7.3	c 07	N71-27341 *	US-PATENT-CLASS-180-79.3	c 37	N74-18125 *
US-PATENT-CLASS-176-3	c 75	N75-13625 *		US-PATENT-CLASS-178-7.3	c 07	N72-12081 *	US-PATENT-CLASS-180-8.6	c 18	N88-23828 *
US-PATENT-CLASS-176-45	c 22	N71-28759 *		US-PATENT-CLASS-178-7.5E	c 10	N72-31273 *	US-PATENT-CLASS-180-8A	c 11	N73-26238 *
US-PATENT-CLASS-176-86G	c 22	N72-20597 *		US-PATENT-CLASS-178-7.6	c 36	N74-20009 *	US-PATENT-CLASS-180-9.2R	c 11	N73-26238 *
US-PATENT-CLASS-177-147	c 35	N85-20294 *		US-PATENT-CLASS-178-7.7	c 09	N71-12539 *	US-PATENT-CLASS-180-9.5	c 11	N73-26238 *
US-PATENT-CLASS-177-1	c 35	N77-19385 *		US-PATENT-CLASS-178-7.7	c 32	N74-20813 *	US-PATENT-CLASS-181.5R	c 71	N74-31148 *
US-PATENT-CLASS-177-200	c 35	N74-26945 *		US-PATENT-CLASS-178-7.89	c 09	N76-24280 *	US-PATENT-CLASS-181-5	c 11	N78-27779 *
US-PATENT-CLASS-177-208	c 35	N77-19385 *		US-PATENT-CLASS-178-7.92</					

US-PATENT-CLASS-181-0.5	c 31	N90-21215 *	US-PATENT-CLASS-19-205	c 37	N76-18456 *	US-PATENT-CLASS-200-19	c 09	N70-39915 *
US-PATENT-CLASS-181-0.5	c 71	N91-14808 *	US-PATENT-CLASS-191-12.2-R	c 33	N86-20669 *	US-PATENT-CLASS-200-304	c 33	N80-18285 *
US-PATENT-CLASS-181-102	c 39	N80-10507 *	US-PATENT-CLASS-192-43.1	c 15	N71-17805 *	US-PATENT-CLASS-200-39	c 03	N70-38713 *
US-PATENT-CLASS-181-102	c 31	N80-32584 *	US-PATENT-CLASS-192-46	c 37	N87-17037 *	US-PATENT-CLASS-200-46	c 74	N79-12890 *
US-PATENT-CLASS-181-105	c 39	N80-10507 *	US-PATENT-CLASS-192-67R	c 37	N87-17037 *	US-PATENT-CLASS-200-61.05	c 25	N86-27431 *
US-PATENT-CLASS-181-106	c 46	N79-22679 *	US-PATENT-CLASS-194-82.26	c 37	N90-21390 *	US-PATENT-CLASS-200-61.42	c 09	N71-12518 *
US-PATENT-CLASS-181-115	c 46	N79-23555 *	US-PATENT-CLASS-194-82.29	c 37	N90-21390 *	US-PATENT-CLASS-200-61.45	c 14	N70-41812 *
US-PATENT-CLASS-181-117	c 46	N79-22679 *	US-PATENT-CLASS-194-90.2	c 37	N89-13785 *	US-PATENT-CLASS-200-61	c 74	N79-12890 *
US-PATENT-CLASS-181-120	c 46	N79-23555 *	US-PATENT-CLASS-195-1.8	c 51	N77-25769 *	US-PATENT-CLASS-200-64	c 15	N72-17455 *
US-PATENT-CLASS-181-121	c 35	N84-22933 *	US-PATENT-CLASS-195-1.8	c 51	N79-10694 *	US-PATENT-CLASS-200-6	c 10	N71-15909 *
US-PATENT-CLASS-181-148	c 71	N79-23753 *	US-PATENT-CLASS-195-1.8	c 52	N79-14749 *	US-PATENT-CLASS-200-6	c 09	N71-16089 *
US-PATENT-CLASS-181-190	c 71	N79-14871 *	US-PATENT-CLASS-195-103.5K	c 51	N77-22794 *	US-PATENT-CLASS-200-81.9M	c 09	N72-20199 *
US-PATENT-CLASS-181-206	c 71	N91-27913 *	US-PATENT-CLASS-195-103.5K	c 52	N79-14750 *	US-PATENT-CLASS-200-81R	c 09	N72-22204 *
US-PATENT-CLASS-181-213	c 71	N79-14871 *	US-PATENT-CLASS-195-103.5L	c 52	N79-14750 *	US-PATENT-CLASS-200-82C	c 09	N72-22204 *
US-PATENT-CLASS-181-213	c 07	N83-33884 *	US-PATENT-CLASS-195-103.5R	c 06	N72-25149 *	US-PATENT-CLASS-200-82	c 10	N71-23663 *
US-PATENT-CLASS-181-214	c 07	N81-14999 *	US-PATENT-CLASS-195-103.5R	c 25	N75-12086 *	US-PATENT-CLASS-200-83N	c 35	N75-15931 *
US-PATENT-CLASS-181-214	c 71	N82-16800 *	US-PATENT-CLASS-195-103.5R	c 35	N75-27330 *	US-PATENT-CLASS-200-83	c 33	N79-33392 *
US-PATENT-CLASS-181-222	c 71	N79-14871 *	US-PATENT-CLASS-195-103.5R	c 35	N75-33368 *	US-PATENT-CLASS-201-10	c 27	N81-17261 *
US-PATENT-CLASS-181-286	c 24	N90-21822 *	US-PATENT-CLASS-195-103.5R	c 51	N76-29891 *	US-PATENT-CLASS-201-17	c 44	N78-31527 *
US-PATENT-CLASS-181-286	c 71	N91-27913 *	US-PATENT-CLASS-195-103.5R	c 51	N77-22794 *	US-PATENT-CLASS-201-17	c 25	N81-33246 *
US-PATENT-CLASS-181-290	c 24	N90-21822 *	US-PATENT-CLASS-195-103.5R	c 25	N79-22235 *	US-PATENT-CLASS-201-17	c 25	N82-29371 *
US-PATENT-CLASS-181-290	c 71	N91-27913 *	US-PATENT-CLASS-195-120	c 51	N75-13502 *	US-PATENT-CLASS-201-17	c 25	N83-31743 *
US-PATENT-CLASS-181-293	c 71	N79-14871 *	US-PATENT-CLASS-195-120	c 35	N75-27330 *	US-PATENT-CLASS-201-17	c 25	N85-35253 *
US-PATENT-CLASS-181-295	c 71	N91-27913 *	US-PATENT-CLASS-195-127	c 15	N72-21465 *	US-PATENT-CLASS-201-25	c 27	N81-17261 *
US-PATENT-CLASS-181-33C	c 07	N74-32418 *	US-PATENT-CLASS-195-127	c 11	N72-25284 *	US-PATENT-CLASS-201-8	c 27	N81-17261 *
US-PATENT-CLASS-181-33F	c 07	N74-32418 *	US-PATENT-CLASS-195-127	c 14	N72-25413 *	US-PATENT-CLASS-202-118	c 31	N81-15154 *
US-PATENT-CLASS-181-33HB	c 07	N74-27490 *	US-PATENT-CLASS-195-127	c 15	N73-20514 *	US-PATENT-CLASS-202-182	c 05	N71-11207 *
US-PATENT-CLASS-181-33HC	c 07	N74-33218 *	US-PATENT-CLASS-195-127	c 05	N73-32011 *	US-PATENT-CLASS-202-234	c 15	N71-23086 *
US-PATENT-CLASS-181-33HC	c 07	N76-18117 *	US-PATENT-CLASS-195-127	c 35	N75-12272 *	US-PATENT-CLASS-203-12	c 25	N82-28368 *
US-PATENT-CLASS-181-33H	c 07	N74-32418 *	US-PATENT-CLASS-195-127	c 51	N75-13502 *	US-PATENT-CLASS-203-90	c 25	N88-23846 *
US-PATENT-CLASS-181-33L	c 07	N74-32418 *	US-PATENT-CLASS-195-127	c 35	N75-27330 *	US-PATENT-CLASS-203-91	c 25	N88-23846 *
US-PATENT-CLASS-181-42	c 07	N74-32418 *	US-PATENT-CLASS-195-127	c 25	N79-22235 *	US-PATENT-CLASS-203-98	c 25	N88-23846 *
US-PATENT-CLASS-181-43	c 07	N74-15453 *	US-PATENT-CLASS-195-127	c 25	N79-24073 *	US-PATENT-CLASS-204-DIG.11	c 25	N77-32255 *
US-PATENT-CLASS-181-52	c 28	N70-41582 *	US-PATENT-CLASS-195-141	c 35	N75-27330 *	US-PATENT-CLASS-204-DIG.3	c 25	N84-12262 *
US-PATENT-CLASS-182-103	c 18	N89-12621 *	US-PATENT-CLASS-195-28B	c 06	N72-25149 *	US-PATENT-CLASS-204-DIG.3	c 44	N84-23019 *
US-PATENT-CLASS-182-10	c 15	N71-27067 *	US-PATENT-CLASS-195-66R	c 06	N73-27086 *	US-PATENT-CLASS-204-1T	c 25	N79-22235 *
US-PATENT-CLASS-182-129	c 54	N92-16559 *	US-PATENT-CLASS-195-68	c 04	N69-27487 *	US-PATENT-CLASS-204-1T	c 51	N81-28698 *
US-PATENT-CLASS-182-134	c 54	N92-16559 *	US-PATENT-CLASS-195-99	c 06	N71-17705 *	US-PATENT-CLASS-204-1T	c 25	N82-12166 *
US-PATENT-CLASS-182-141	c 54	N92-16559 *	US-PATENT-CLASS-197-188	c 37	N77-19457 *	US-PATENT-CLASS-204-1T	c 76	N84-35112 *
US-PATENT-CLASS-182-152	c 31	N87-25492 *	US-PATENT-CLASS-197-190	c 37	N77-19457 *	US-PATENT-CLASS-204-1T	c 35	N85-29212 *
US-PATENT-CLASS-182-178	c 39	N76-31562 *	US-PATENT-CLASS-198-847	c 37	N80-32717 *	US-PATENT-CLASS-204-1T	c 76	N85-30923 *
US-PATENT-CLASS-182-191	c 05	N71-11199 *	US-PATENT-CLASS-198-848	c 37	N80-32717 *	US-PATENT-CLASS-204-129.55	c 31	N83-19947 *
US-PATENT-CLASS-182-223	c 54	N87-29118 *	US-PATENT-CLASS-1	c 14	N71-27005 *	US-PATENT-CLASS-204-129.75	c 31	N83-19947 *
US-PATENT-CLASS-182-2	c 54	N92-16559 *	US-PATENT-CLASS-2-115	c 05	N72-25119 *	US-PATENT-CLASS-204-129	c 28	N81-24280 *
US-PATENT-CLASS-182-5	c 15	N73-25512 *	US-PATENT-CLASS-2-14	c 05	N71-23096 *	US-PATENT-CLASS-204-129	c 25	N84-12262 *
US-PATENT-CLASS-182-62.5	c 31	N81-27324 *	US-PATENT-CLASS-2-161R	c 54	N84-23113 *	US-PATENT-CLASS-204-129	c 44	N84-23019 *
US-PATENT-CLASS-182-63	c 54	N87-29118 *	US-PATENT-CLASS-2-161R	c 54	N84-28484 *	US-PATENT-CLASS-204-130	c 15	N72-21466 *
US-PATENT-CLASS-182-63	c 54	N92-16559 *	US-PATENT-CLASS-2-161	c 54	N78-17677 *	US-PATENT-CLASS-204-157.1H	c 25	N74-30502 *
US-PATENT-CLASS-182-82	c 54	N87-29118 *	US-PATENT-CLASS-2-164	c 54	N84-28484 *	US-PATENT-CLASS-204-157.1H	c 37	N76-18458 *
US-PATENT-CLASS-184-1	c 15	N71-23048 *	US-PATENT-CLASS-2-167	c 54	N84-23113 *	US-PATENT-CLASS-204-157.1R	c 25	N77-32255 *
US-PATENT-CLASS-185-38	c 37	N78-16369 *	US-PATENT-CLASS-2-167	c 54	N84-28484 *	US-PATENT-CLASS-204-157.1R	c 44	N77-32580 *
US-PATENT-CLASS-187-1	c 15	N72-25453 *	US-PATENT-CLASS-2-2.1A	c 05	N72-22092 *	US-PATENT-CLASS-204-157.1R	c 44	N79-11470 *
US-PATENT-CLASS-187-20	c 15	N72-25453 *	US-PATENT-CLASS-2-2.1A	c 05	N73-25125 *	US-PATENT-CLASS-204-157.18AG	c 15	N72-25452 *
US-PATENT-CLASS-187-7.1	c 07	N71-24742 *	US-PATENT-CLASS-2-2.1A	c 05	N73-32012 *	US-PATENT-CLASS-204-157.22	c 25	N88-24732 *
US-PATENT-CLASS-187-95	c 15	N72-25453 *	US-PATENT-CLASS-2-2.1A	c 54	N74-32546 *	US-PATENT-CLASS-204-157.51	c 25	N90-20154 *
US-PATENT-CLASS-188-1B	c 15	N72-20443 *	US-PATENT-CLASS-2-2.1A	c 54	N77-32721 *	US-PATENT-CLASS-204-158R	c 25	N77-32255 *
US-PATENT-CLASS-188-1B	c 19	N76-22284 *	US-PATENT-CLASS-2-2.1A	c 54	N78-17675 *	US-PATENT-CLASS-204-159.11	c 27	N80-32516 *
US-PATENT-CLASS-188-1C	c 15	N72-17450 *	US-PATENT-CLASS-2-2.1A	c 54	N78-31735 *	US-PATENT-CLASS-204-159.14	c 27	N80-32516 *
US-PATENT-CLASS-188-1C	c 15	N72-20443 *	US-PATENT-CLASS-2-2.1A	c 54	N78-31736 *	US-PATENT-CLASS-204-159.15	c 27	N80-26446 *
US-PATENT-CLASS-188-1C	c 15	N73-30460 *	US-PATENT-CLASS-2-2.1A	c 54	N79-24651 *	US-PATENT-CLASS-204-159.19	c 27	N80-26446 *
US-PATENT-CLASS-188-1C	c 11	N73-32152 *	US-PATENT-CLASS-2-2.1A	c 54	N86-28618 *	US-PATENT-CLASS-204-162R	c 25	N77-32255 *
US-PATENT-CLASS-188-1C	c 37	N79-10420 *	US-PATENT-CLASS-2-2.1A	c 54	N86-28619 *	US-PATENT-CLASS-204-164	c 26	N78-32229 *
US-PATENT-CLASS-188-103	c 15	N71-27146 *	US-PATENT-CLASS-2-2.1A	c 54	N86-28620 *	US-PATENT-CLASS-204-168	c 24	N71-25555 *
US-PATENT-CLASS-188-129	c 15	N72-17450 *	US-PATENT-CLASS-2-2.1A	c 54	N86-29507 *	US-PATENT-CLASS-204-16	c 24	N77-19171 *
US-PATENT-CLASS-188-134	c 37	N81-15364 *	US-PATENT-CLASS-2-2.1A	c 18	N90-16860 *	US-PATENT-CLASS-204-171	c 27	N80-23452 *
US-PATENT-CLASS-188-151A	c 44	N79-14527 *	US-PATENT-CLASS-2-2.1A	c 27	N92-10091 *	US-PATENT-CLASS-204-175	c 26	N78-32229 *
US-PATENT-CLASS-188-163	c 37	N74-26976 *	US-PATENT-CLASS-2-2.1R	c 54	N86-28618 *	US-PATENT-CLASS-204-177	c 25	N75-12087 *
US-PATENT-CLASS-188-171	c 37	N74-26976 *	US-PATENT-CLASS-2-2.1R	c 54	N86-28619 *	US-PATENT-CLASS-204-180.1	c 25	N88-23845 *
US-PATENT-CLASS-188-171	c 37	N92-21728 *	US-PATENT-CLASS-2-2.1	c 05	N71-11194 *	US-PATENT-CLASS-204-180G	c 25	N78-14104 *
US-PATENT-CLASS-188-180	c 37	N81-15364 *	US-PATENT-CLASS-2-2.1	c 05	N71-11195 *	US-PATENT-CLASS-204-180G	c 25	N79-14169 *
US-PATENT-CLASS-188-184	c 37	N81-15364 *	US-PATENT-CLASS-2-2.1	c 05	N71-12335 *	US-PATENT-CLASS-204-180G	c 37	N80-14397 *
US-PATENT-CLASS-188-1	c 15	N70-34861 *	US-PATENT-CLASS-2-2.1	c 05	N71-12344 *	US-PATENT-CLASS-204-180P	c 54	N78-14784 *
US-PATENT-CLASS-188-1	c 15	N70-38601 *	US-PATENT-CLASS-2-2.1	c 05	N71-23161 *	US-PATENT-CLASS-204-180R	c 25	N74-26948 *
US-PATENT-CLASS-188-1	c 15	N70-40354 *	US-PATENT-CLASS-2-2.1	c 05	N71-24623 *	US-PATENT-CLASS-204-180R	c 34	N74-27744 *
US-PATENT-CLASS-188-1	c 14	N71-17626 *	US-PATENT-CLASS-2-2.1	c 05	N71-24730 *	US-PATENT-CLASS-204-180R	c 51	N80-16715 *
US-PATENT-CLASS-188-1	c 15	N71-22877 *	US-PATENT-CLASS-2-2.1	c 05	N72-20096 *	US-PATENT-CLASS-204-180S	c 25	N79-10163 *
US-PATENT-CLASS-188-1	c 14	N71-23092 *	US-PATENT-CLASS-2-2.1	c 05	N72-20098 *	US-PATENT-CLASS-204-180S	c 25	N79-14169 *
US-PATENT-CLASS-188-1	c 15	N71-26243 *	US-PATENT-CLASS-2-2.1	c 05	N72-25119 *	US-PATENT-CLASS-204-192.15	c 26	N87-25455 *
US-PATENT-CLASS-188-1	c 15	N71-27146 *	US-PATENT-CLASS-2-2.1	c 05	N73-26071 *	US-PATENT-CLASS-204-192.15	c 76	N88-24543 *
US-PATENT-CLASS-188-1	c 15	N71-27169 *	US-PATENT-CLASS-2-2.1	c 34	N78-17337 *	US-PATENT-CLASS-204-192.23	c 26	N87-25455 *
US-PATENT-CLASS-188-218-XL	c 37	N88-29181 *	US-PATENT-CLASS-2-2.1	c 54	N78-17678 *	US-PATENT-CLASS-204-192.24	c 76	N88-24543 *
US-PATENT-CLASS-188-24.11	c 37	N91-32514 *	US-PATENT-CLASS-2-2.1	c 54	N78-18761 *	US-PATENT-CLASS-204-192.31	c 26	N88-14179 *
US-PATENT-CLASS-188-251-A	c 37	N88-29181 *	US-PATENT-CLASS-2-201	c 54	N89-29953 *	US-PATENT-CLASS-204-192.32	c 25	N91-31258 *
US-PATENT-CLASS-188-266	c 15	N73-25513 *	US-PATENT-CLASS-2-275	c 18	N71-26285 *	US-PATENT-CLASS-204-192-C	c 27	N86-19458 *
US-PATENT-CLASS-188-268	c 15	N72-20443 *	US-PATENT-CLASS-2-411	c 27	N92-10091 *	US-PATENT-CLASS-204-192-D	c 27	N86-19458 *
US-PATENT-CLASS-188-269	c 44	N79-14527 *	US-PATENT-CLASS-2-424	c 27	N92-10091 *	US-PATENT-CLASS-204-192-R	c 27	N86-19458 *
US-PATENT-CLASS-188-291	c 54	N77-21844 *	US-PATENT-CLASS-2-6	c 05	N71-26333 *	US-PATENT-CLASS-204-192C	c 76	N79-14906 *
US-PATENT-CLASS-188-371	c 37	N82-18601 *	US-PATENT-CLASS-2-6	c 54	N78-17680 *	US-PATENT-CLASS-204-192C	c 26	N82-29415 *
US-PATENT-CLASS-188-373	c 37	N88-23982 *	US-PATENT-CLASS-2-81	c 18	N71-26285 *	US-PATENT-CLASS-204-192C	c 26	N82-30371 *
US-PATENT-CLASS-188-65.1	c 15	N73-25512 *	US-PATENT-CLASS-2-81	c 05	N73-32012 *	US-PATENT-CLASS-204-192C	c 24	N84-22695 *
US-PATENT-CLASS-188-65.5	c 15	N71-27067 *	US-PATENT-CLASS-2-82	c 54	N74-32546 *	US-PATENT-CLASS-204-192C	c 31	N85-20153 *
US-PATENT-CLASS-188-82.84	c 37	N92-21728 *	US-PATENT-CLASS-200-114	c 33	N79-33393 *	US-PATENT-CLASS-204-192C	c 24	N85-21267 *
US-PATENT-CLASS-188-82.9	c 37	N92-21728 *	US-PATENT-CLASS-200-129	c 33	N75-27249 *	US-PATENT-CLASS-204-192C	c 76	N85-33826 *
US-PATENT-CLASS-188-87	c 12	N71-16894 *	US-PATENT-CLASS-200-152	c 09	N71-19610 *	US-PATENT-CLASS-204-192C	c 27	N86-32569 *
US-PATENT-CLASS-188-88	c 15	N71-26611 *	US-PATENT-CLASS-200-153S	c 33	N80-18285 *	US-PATENT-CLASS-204-192C	c 31	N86-32587 *
US-PATENT-CLASS-189-36	c 15	N70-36947 *	US-PATENT-CLASS-200-157	c 08	N86-27288 *	US-PATENT-CLASS-204-192D	c 27	N86-32569 *

REPORT NUMBER INDEX

US-PATENT-CLASS-219-125

US-PATENT-CLASS-204-192D	c 31	N86-32587 *	US-PATENT-CLASS-204-37	c 33	N71-29151 *	US-PATENT-CLASS-210-512	c 34	N75-33342 *
US-PATENT-CLASS-204-192EC	c 27	N82-28440 *	US-PATENT-CLASS-204-38A	c 44	N76-14595 *	US-PATENT-CLASS-210-54	c 85	N79-17747 *
US-PATENT-CLASS-204-192EC	c 27	N82-33521 *	US-PATENT-CLASS-204-38B	c 44	N79-11469 *	US-PATENT-CLASS-210-57	c 45	N80-14579 *
US-PATENT-CLASS-204-192EC	c 33	N84-22884 *	US-PATENT-CLASS-204-38B	c 27	N82-33521 *	US-PATENT-CLASS-210-602	c 45	N84-12654 *
US-PATENT-CLASS-204-192E	c 37	N81-19455 *	US-PATENT-CLASS-204-38	c 17	N71-24830 *	US-PATENT-CLASS-210-605	c 45	N84-12654 *
US-PATENT-CLASS-204-192E	c 27	N82-28440 *	US-PATENT-CLASS-204-40	c 44	N76-14595 *	US-PATENT-CLASS-210-60	c 45	N79-12584 *
US-PATENT-CLASS-204-192E	c 27	N82-33521 *	US-PATENT-CLASS-204-40	c 24	N77-19171 *	US-PATENT-CLASS-210-615	c 45	N91-14662 *
US-PATENT-CLASS-204-192E	c 24	N83-10117 *	US-PATENT-CLASS-204-42	c 44	N76-14595 *	US-PATENT-CLASS-210-617	c 45	N84-12654 *
US-PATENT-CLASS-204-192E	c 52	N84-23095 *	US-PATENT-CLASS-204-430	c 35	N85-29212 *	US-PATENT-CLASS-210-63R	c 25	N78-10225 *
US-PATENT-CLASS-204-192N	c 24	N85-21267 *	US-PATENT-CLASS-204-49	c 15	N72-25452 *	US-PATENT-CLASS-210-63R	c 45	N79-12584 *
US-PATENT-CLASS-204-192N	c 26	N85-29005 *	US-PATENT-CLASS-204-49	c 44	N76-14595 *	US-PATENT-CLASS-210-63Z	c 45	N80-14579 *
US-PATENT-CLASS-204-192P	c 76	N85-33826 *	US-PATENT-CLASS-204-56R	c 44	N83-10494 *	US-PATENT-CLASS-210-639	c 31	N88-29052 *
US-PATENT-CLASS-204-192R	c 24	N84-22695 *	US-PATENT-CLASS-204-56R	c 27	N83-29388 *	US-PATENT-CLASS-210-653	c 31	N88-29052 *
US-PATENT-CLASS-204-192R	c 31	N85-20153 *	US-PATENT-CLASS-204-56R	c 76	N84-35112 *	US-PATENT-CLASS-210-66	c 85	N79-17747 *
US-PATENT-CLASS-204-192R	c 24	N85-21267 *	US-PATENT-CLASS-204-59	c 15	N72-21466 *	US-PATENT-CLASS-210-67	c 85	N79-17747 *
US-PATENT-CLASS-204-192SP	c 24	N84-22695 *	US-PATENT-CLASS-204-9	c 20	N74-32919 *	US-PATENT-CLASS-210-70	c 85	N79-17747 *
US-PATENT-CLASS-204-192SP	c 31	N85-20153 *	US-PATENT-CLASS-204-9	c 24	N77-19171 *	US-PATENT-CLASS-210-71	c 25	N78-10225 *
US-PATENT-CLASS-204-192	c 15	N73-12487 *	US-PATENT-CLASS-204-298	c 27	N86-19458 *	US-PATENT-CLASS-210-73R	c 85	N79-17747 *
US-PATENT-CLASS-204-192	c 17	N73-24569 *	US-PATENT-CLASS-2041-195B	c 25	N79-22235 *	US-PATENT-CLASS-210-748	c 71	N83-35781 *
US-PATENT-CLASS-204-192	c 27	N74-13270 *	US-PATENT-CLASS-205-343	c 35	N75-30502 *	US-PATENT-CLASS-210-748	c 35	N84-17555 *
US-PATENT-CLASS-204-192	c 20	N74-31269 *	US-PATENT-CLASS-206-07	c 31	N89-29578 *	US-PATENT-CLASS-210-748	c 54	N91-31803 *
US-PATENT-CLASS-204-192	c 37	N75-19684 *	US-PATENT-CLASS-206-439	c 52	N79-14749 *	US-PATENT-CLASS-210-82	c 34	N75-33342 *
US-PATENT-CLASS-204-192	c 44	N77-14580 *	US-PATENT-CLASS-206-447	c 27	N84-14323 *	US-PATENT-CLASS-210-94	c 29	N90-21209 *
US-PATENT-CLASS-204-195B	c 25	N79-24073 *	US-PATENT-CLASS-206-582	c 27	N84-14323 *	US-PATENT-CLASS-210-95	c 29	N90-21209 *
US-PATENT-CLASS-204-195B	c 51	N80-27067 *	US-PATENT-CLASS-208-10	c 25	N79-11152 *	US-PATENT-CLASS-210-96M	c 54	N78-14784 *
US-PATENT-CLASS-204-195B	c 51	N81-28698 *	US-PATENT-CLASS-208-10	c 23	N84-16255 *	US-PATENT-CLASS-210-96M	c 51	N79-10693 *
US-PATENT-CLASS-204-195B	c 35	N82-28604 *	US-PATENT-CLASS-208-10	c 25	N84-22709 *	US-PATENT-CLASS-210-97	c 35	N90-22024 *
US-PATENT-CLASS-204-195R	c 33	N76-19339 *	US-PATENT-CLASS-208-11	c 25	N86-25428 *	US-PATENT-CLASS-211-126	c 35	N86-20751 *
US-PATENT-CLASS-204-195S	c 25	N82-12166 *	US-PATENT-CLASS-208-241	c 25	N82-23282 *	US-PATENT-CLASS-211-74	c 35	N86-20751 *
US-PATENT-CLASS-204-195W	c 35	N78-25391 *	US-PATENT-CLASS-208-8LE	c 23	N84-16255 *	US-PATENT-CLASS-212-11	c 32	N71-17609 *
US-PATENT-CLASS-204-195	c 14	N71-17575 *	US-PATENT-CLASS-208-8LE	c 25	N84-22709 *	US-PATENT-CLASS-212-134	c 15	N72-11388 *
US-PATENT-CLASS-204-2.1	c 44	N81-29524 *	US-PATENT-CLASS-208-8	c 25	N79-11152 *	US-PATENT-CLASS-212-225	c 18	N89-12621 *
US-PATENT-CLASS-204-20	c 18	N71-16210 *	US-PATENT-CLASS-209-10	c 15	N71-20440 *	US-PATENT-CLASS-212-230	c 37	N86-20789 *
US-PATENT-CLASS-204-222	c 31	N74-23065 *	US-PATENT-CLASS-209-127R	c 35	N76-22509 *	US-PATENT-CLASS-212-257	c 18	N89-12621 *
US-PATENT-CLASS-204-224	c 37	N80-14395 *	US-PATENT-CLASS-209-250	c 37	N76-18456 *	US-PATENT-CLASS-212-267	c 31	N81-27324 *
US-PATENT-CLASS-204-242	c 33	N75-27252 *	US-PATENT-CLASS-209-300	c 37	N76-18456 *	US-PATENT-CLASS-213-81	c 37	N77-23483 *
US-PATENT-CLASS-204-242	c 25	N84-12262 *	US-PATENT-CLASS-209-305	c 37	N76-18456 *	US-PATENT-CLASS-214-1CM	c 37	N76-15460 *
US-PATENT-CLASS-204-252	c 28	N81-24280 *	US-PATENT-CLASS-209-349	c 15	N72-22483 *	US-PATENT-CLASS-214-1BC	c 54	N77-32721 *
US-PATENT-CLASS-204-263	c 14	N71-28933 *	US-PATENT-CLASS-209-422	c 71	N85-30765 *	US-PATENT-CLASS-214-1B	c 54	N75-27758 *
US-PATENT-CLASS-204-263	c 25	N82-12166 *	US-PATENT-CLASS-209-638	c 71	N85-30765 *	US-PATENT-CLASS-214-1CM	c 15	N72-28495 *
US-PATENT-CLASS-204-264	c 25	N82-12166 *	US-PATENT-CLASS-21-207	c 17	N71-16393 *	US-PATENT-CLASS-214-1CM	c 54	N75-12616 *
US-PATENT-CLASS-204-266	c 28	N81-24280 *	US-PATENT-CLASS-210-DIG.23	c 52	N79-14749 *	US-PATENT-CLASS-214-1CM	c 18	N75-27041 *
US-PATENT-CLASS-204-266	c 25	N82-12166 *	US-PATENT-CLASS-210-DIG.27	c 27	N77-31308 *	US-PATENT-CLASS-214-1CM	c 54	N75-27758 *
US-PATENT-CLASS-204-267	c 33	N75-27252 *	US-PATENT-CLASS-210-103	c 05	N72-27102 *	US-PATENT-CLASS-214-1CM	c 37	N77-23483 *
US-PATENT-CLASS-204-275	c 25	N82-12166 *	US-PATENT-CLASS-210-104	c 05	N72-27102 *	US-PATENT-CLASS-214-1CM	c 54	N77-32721 *
US-PATENT-CLASS-204-276	c 25	N82-12166 *	US-PATENT-CLASS-210-108	c 34	N79-24285 *	US-PATENT-CLASS-214-1CM	c 54	N78-17676 *
US-PATENT-CLASS-204-278	c 25	N82-12166 *	US-PATENT-CLASS-210-110	c 05	N72-27102 *	US-PATENT-CLASS-214-1R	c 37	N76-15457 *
US-PATENT-CLASS-204-278	c 25	N84-12262 *	US-PATENT-CLASS-210-137	c 05	N72-27102 *	US-PATENT-CLASS-214-16.1CB	c 37	N77-22480 *
US-PATENT-CLASS-204-278	c 44	N84-23019 *	US-PATENT-CLASS-210-142	c 34	N79-24285 *	US-PATENT-CLASS-214-1	c 32	N70-41367 *
US-PATENT-CLASS-204-279	c 33	N75-27252 *	US-PATENT-CLASS-210-151	c 45	N84-12654 *	US-PATENT-CLASS-214-90R	c 03	N72-25021 *
US-PATENT-CLASS-204-280R	c 25	N83-13187 *	US-PATENT-CLASS-210-186	c 37	N80-10494 *	US-PATENT-CLASS-215-247	c 33	N76-19339 *
US-PATENT-CLASS-204-280	c 44	N84-23019 *	US-PATENT-CLASS-210-188	c 12	N72-25292 *	US-PATENT-CLASS-219-10.41	c 33	N82-26571 *
US-PATENT-CLASS-204-286	c 33	N75-27252 *	US-PATENT-CLASS-210-192	c 54	N78-14784 *	US-PATENT-CLASS-219-10.43	c 31	N85-29083 *
US-PATENT-CLASS-204-290F	c 28	N81-24280 *	US-PATENT-CLASS-210-205	c 29	N90-21209 *	US-PATENT-CLASS-219-10.49R	c 33	N81-19389 *
US-PATENT-CLASS-204-290F	c 44	N82-29710 *	US-PATENT-CLASS-210-212	c 03	N72-20033 *	US-PATENT-CLASS-219-10.49	c 11	N71-15925 *
US-PATENT-CLASS-204-290R	c 33	N75-27252 *	US-PATENT-CLASS-210-222	c 35	N78-12390 *	US-PATENT-CLASS-219-10.49	c 31	N85-29083 *
US-PATENT-CLASS-204-290R	c 28	N81-24280 *	US-PATENT-CLASS-210-222	c 52	N80-14687 *	US-PATENT-CLASS-219-10.53	c 33	N82-26571 *
US-PATENT-CLASS-204-290R	c 44	N82-29710 *	US-PATENT-CLASS-210-23F	c 51	N79-10693 *	US-PATENT-CLASS-219-10.53	c 31	N85-29083 *
US-PATENT-CLASS-204-290R	c 25	N84-12262 *	US-PATENT-CLASS-210-23H	c 27	N80-23452 *	US-PATENT-CLASS-219-10.67	c 33	N81-19389 *
US-PATENT-CLASS-204-290	c 44	N84-28205 *	US-PATENT-CLASS-210-234	c 34	N75-33342 *	US-PATENT-CLASS-219-10.77	c 31	N85-29083 *
US-PATENT-CLASS-204-291	c 28	N81-24280 *	US-PATENT-CLASS-210-24R	c 27	N81-14076 *	US-PATENT-CLASS-219-101	c 15	N73-14468 *
US-PATENT-CLASS-204-292	c 25	N78-10225 *	US-PATENT-CLASS-210-247	c 29	N90-21209 *	US-PATENT-CLASS-219-101	c 37	N74-11300 *
US-PATENT-CLASS-204-298	c 15	N70-34967 *	US-PATENT-CLASS-210-24	c 27	N77-30236 *	US-PATENT-CLASS-219-107	c 15	N73-28515 *
US-PATENT-CLASS-204-298	c 09	N71-26701 *	US-PATENT-CLASS-210-24	c 25	N81-19244 *	US-PATENT-CLASS-219-107	c 37	N74-11300 *
US-PATENT-CLASS-204-298	c 15	N72-32487 *	US-PATENT-CLASS-210-257.1	c 29	N90-21209 *	US-PATENT-CLASS-219-109	c 15	N72-23497 *
US-PATENT-CLASS-204-298	c 37	N75-19684 *	US-PATENT-CLASS-210-259	c 34	N75-33342 *	US-PATENT-CLASS-219-117	c 15	N73-23258 *
US-PATENT-CLASS-204-298	c 27	N86-32569 *	US-PATENT-CLASS-210-282	c 37	N87-17035 *	US-PATENT-CLASS-219-118	c 37	N76-27568 *
US-PATENT-CLASS-204-298	c 31	N86-32587 *	US-PATENT-CLASS-210-28	c 85	N79-17747 *	US-PATENT-CLASS-219-118	c 37	N77-11397 *
US-PATENT-CLASS-204-298	c 31	N87-21160 *	US-PATENT-CLASS-210-304	c 34	N75-33342 *	US-PATENT-CLASS-219-119	c 15	N73-14468 *
US-PATENT-CLASS-204-299-R	c 25	N88-23845 *	US-PATENT-CLASS-210-314	c 28	N70-41447 *	US-PATENT-CLASS-219-121.28	c 35	N90-20351 *
US-PATENT-CLASS-204-299R	c 25	N78-14104 *	US-PATENT-CLASS-210-321.1	c 25	N82-21269 *	US-PATENT-CLASS-219-121.47	c 75	N91-25875 *
US-PATENT-CLASS-204-299R	c 25	N79-14169 *	US-PATENT-CLASS-210-321.6	c 29	N90-21209 *	US-PATENT-CLASS-219-121.48	c 75	N91-25875 *
US-PATENT-CLASS-204-299R	c 37	N80-14397 *	US-PATENT-CLASS-210-321B	c 52	N80-14687 *	US-PATENT-CLASS-219-121.52	c 75	N91-25875 *
US-PATENT-CLASS-204-299R	c 51	N80-16715 *	US-PATENT-CLASS-210-333	c 34	N75-33342 *	US-PATENT-CLASS-219-121.54	c 37	N88-30131 *
US-PATENT-CLASS-204-299R	c 25	N83-10126 *	US-PATENT-CLASS-210-340	c 34	N75-33342 *	US-PATENT-CLASS-219-121.56	c 37	N88-30131 *
US-PATENT-CLASS-204-299R	c 25	N83-13187 *	US-PATENT-CLASS-210-340	c 37	N80-10494 *	US-PATENT-CLASS-219-121.57	c 37	N88-30131 *
US-PATENT-CLASS-204-299	c 34	N74-27744 *	US-PATENT-CLASS-210-340	c 29	N90-21209 *	US-PATENT-CLASS-219-121.68	c 31	N91-14508 *
US-PATENT-CLASS-204-299	c 25	N79-10163 *	US-PATENT-CLASS-210-355	c 51	N91-14703 *	US-PATENT-CLASS-219-121.72	c 37	N91-32508 *
US-PATENT-CLASS-204-301	c 54	N78-14784 *	US-PATENT-CLASS-210-396	c 51	N91-21701 *	US-PATENT-CLASS-219-121LE	c 26	N86-32551 *
US-PATENT-CLASS-204-305	c 03	N71-24718 *	US-PATENT-CLASS-210-40	c 27	N77-31308 *	US-PATENT-CLASS-219-121LN	c 44	N82-26777 *
US-PATENT-CLASS-204-30	c 09	N71-28691 *	US-PATENT-CLASS-210-40	c 85	N79-17747 *	US-PATENT-CLASS-219-121LY	c 26	N86-32551 *
US-PATENT-CLASS-204-32A	c 33	N77-26385 *	US-PATENT-CLASS-210-40	c 45	N82-11634 *	US-PATENT-CLASS-219-121P	c 15	N72-32487 *
US-PATENT-CLASS-204-32R	c 44	N76-14595 *	US-PATENT-CLASS-210-411	c 34	N75-33342 *	US-PATENT-CLASS-219-121	c 15	N69-21471 *
US-PATENT-CLASS-204-324	c 33	N73-16918 *	US-PATENT-CLASS-210-414	c 51	N91-14703 *	US-PATENT-CLASS-219-121	c 33	N70-34540 *
US-PATENT-CLASS-204-325	c 33	N73-16918 *	US-PATENT-CLASS-210-425	c 34	N75-33342 *	US-PATENT-CLASS-219-121	c 15	N71-19486 *
US-PATENT-CLASS-204-328	c 33	N73-16918 *	US-PATENT-CLASS-210-429	c 37	N76-14463 *	US-PATENT-CLASS-219-121	c 16	N71-20400 *
US-PATENT-CLASS-204-32	c 44	N79-11469 *	US-PATENT-CLASS-210-433M	c 51	N79-10693 *	US-PATENT-CLASS-219-121	c 15	N71-27135 *
US-PATENT-CLASS-204-33	c 17	N71-25903 *	US-PATENT-CLASS-210-445	c 15	N72-11389 *	US-PATENT-CLASS-219-124.02	c 37	N88-30131 *
US-PATENT-CLASS-204-33	c 44	N76-14595 *	US-PATENT-CLASS-210-45	c 85	N79-17747 *	US-PATENT-CLASS-219-124.2.2	c 37	N79-10421 *
US-PATENT-CLASS-204-33	c 44	N79-11469 *	US-PATENT-CLASS-210-500.25	c 31	N88-29052 *	US-PATENT-CLASS-219-124.32	c 37	N79-10421 *
US-PATENT-CLASS-204-33	c 44	N83-34449 *	US-PATENT-CLASS-210-500.35	c 31	N88-29052 *	US-PATENT-CLASS-219-124.34	c 37	N86-21850 *
US-PATENT-CLASS-204-35N	c 27	N83-29388 *	US-PATENT-CLASS-210-500M	c 27	N80-23452 *	US-PATENT-CLASS-219-124.34	c 74	N87-17493 *
US-PATENT-CLASS-204-35N	c 44	N83-34449 *	US-PATENT-CLASS-210-500M	c 25	N81-17187 *	US-PATENT-CLASS-219-124.34	c 74	N87-25843 *
US-PATENT-CLASS-204-37.6	c 76	N84-35112 *	US-PATENT-CLASS-210-500	c 25	N75-12087 *	US-PATENT-CLASS-219-124.34	c 37	N88-14362 *
US-PATENT-CLASS-204-37R	c 44	N79-11469 *	US-PATENT-CLASS-210-50	c 45	N79-12584 *	US-PATENT-CLASS-219-125.1	c 37	N79-10421 *
US-PATENT-CLASS-204-37R	c 27	N83-29388 *	US-PATENT-CLASS-210-512.1	c 35	N90-22024 *	US-PATENT-CLASS-219-125	c 15	N71-23815 *

US-PATENT-CLASS-219-125	c 37	N75-27376 *	US-PATENT-CLASS-219-92	c 37	N76-27568 *	US-PATENT-CLASS-228-1	c 37	N75-25185 *
US-PATENT-CLASS-219-130.01	c 74	N87-17493 *	US-PATENT-CLASS-219-92	c 37	N77-11397 *	US-PATENT-CLASS-228-2.5	c 37	N79-13364 *
US-PATENT-CLASS-219-130.01	c 74	N87-25843 *	US-PATENT-CLASS-22-200	c 15	N71-15966 *	US-PATENT-CLASS-228-2.5	c 37	N88-14359 *
US-PATENT-CLASS-219-130.01	c 37	N88-14362 *	US-PATENT-CLASS-22-203	c 17	N70-38198 *	US-PATENT-CLASS-228-2.5	c 31	N91-31476 *
US-PATENT-CLASS-219-130.4	c 37	N88-30131 *	US-PATENT-CLASS-220-14	c 15	N69-39935 *	US-PATENT-CLASS-228-2.5	c 31	N92-16162 *
US-PATENT-CLASS-219-130	c 15	N71-23798 *	US-PATENT-CLASS-220-15	c 31	N71-15664 *	US-PATENT-CLASS-228-205	c 37	N81-19455 *
US-PATENT-CLASS-219-131	c 15	N71-15871 *	US-PATENT-CLASS-220-15	c 34	N75-12222 *	US-PATENT-CLASS-228-206	c 37	N76-18455 *
US-PATENT-CLASS-219-136	c 37	N88-14362 *	US-PATENT-CLASS-220-1R	c 31	N71-17680 *	US-PATENT-CLASS-228-208	c 37	N87-21334 *
US-PATENT-CLASS-219-136	c 31	N90-23586 *	US-PATENT-CLASS-220-2.2	c 24	N79-25143 *	US-PATENT-CLASS-228-209	c 37	N87-21334 *
US-PATENT-CLASS-219-136	c 31	N90-26168 *	US-PATENT-CLASS-220-266	c 37	N79-22474 *	US-PATENT-CLASS-228-212	c 37	N80-23655 *
US-PATENT-CLASS-219-137.42	c 37	N88-23980 *	US-PATENT-CLASS-220-306	c 27	N84-27886 *	US-PATENT-CLASS-228-212	c 24	N84-11214 *
US-PATENT-CLASS-219-137	c 15	N70-34814 *	US-PATENT-CLASS-220-335	c 45	N83-25217 *	US-PATENT-CLASS-228-214	c 37	N76-18455 *
US-PATENT-CLASS-219-137	c 37	N75-19683 *	US-PATENT-CLASS-220-378	c 37	N82-24490 *	US-PATENT-CLASS-228-222	c 37	N80-23655 *
US-PATENT-CLASS-219-158	c 15	N72-22491 *	US-PATENT-CLASS-220-423	c 37	N80-18393 *	US-PATENT-CLASS-228-232	c 26	N77-28265 *
US-PATENT-CLASS-219-160	c 37	N80-23655 *	US-PATENT-CLASS-220-429	c 37	N80-20808 *	US-PATENT-CLASS-228-238	c 37	N76-18455 *
US-PATENT-CLASS-219-161	c 37	N80-23655 *	US-PATENT-CLASS-220-445	c 37	N80-18393 *	US-PATENT-CLASS-228-263.18	c 35	N83-35338 *
US-PATENT-CLASS-219-19	c 33	N70-34812 *	US-PATENT-CLASS-220-46	c 15	N71-27068 *	US-PATENT-CLASS-228-263	c 26	N77-29260 *
US-PATENT-CLASS-219-201	c 52	N80-16725 *	US-PATENT-CLASS-220-5A	c 31	N89-29578 *	US-PATENT-CLASS-228-44.1R	c 37	N80-23655 *
US-PATENT-CLASS-219-201	c 37	N85-29286 *	US-PATENT-CLASS-220-5R	c 15	N72-22486 *	US-PATENT-CLASS-228-5.1	c 44	N79-24431 *
US-PATENT-CLASS-219-203	c 11	N73-12265 *	US-PATENT-CLASS-220-5S	c 15	N69-27502 *	US-PATENT-CLASS-228-50	c 15	N70-39924 *
US-PATENT-CLASS-219-203	c 27	N84-33589 *	US-PATENT-CLASS-220-63	c 11	N70-38182 *	US-PATENT-CLASS-228-50	c 15	N70-40204 *
US-PATENT-CLASS-219-209	c 35	N81-26431 *	US-PATENT-CLASS-220-67	c 15	N71-10577 *	US-PATENT-CLASS-228-53	c 15	N71-27214 *
US-PATENT-CLASS-219-210	c 35	N81-26431 *	US-PATENT-CLASS-220-82R	c 31	N81-19343 *	US-PATENT-CLASS-228-57	c 15	N72-22491 *
US-PATENT-CLASS-219-216	c 35	N74-15831 *	US-PATENT-CLASS-220-89A	c 31	N81-19343 *	US-PATENT-CLASS-228-6	c 44	N79-24431 *
US-PATENT-CLASS-219-219	c 27	N84-33589 *	US-PATENT-CLASS-220-89	c 11	N71-15960 *	US-PATENT-CLASS-228-7	c 15	N71-15607 *
US-PATENT-CLASS-219-221	c 15	N72-11392 *	US-PATENT-CLASS-220-89	c 11	N71-17600 *	US-PATENT-CLASS-228-8	c 15	N71-23050 *
US-PATENT-CLASS-219-221	c 37	N85-29286 *	US-PATENT-CLASS-220-901	c 37	N80-18393 *	US-PATENT-CLASS-228-8	c 37	N79-10421 *
US-PATENT-CLASS-219-229	c 15	N71-27214 *	US-PATENT-CLASS-220-9	c 31	N89-29578 *	US-PATENT-CLASS-228-9	c 15	N71-20393 *
US-PATENT-CLASS-219-234	c 15	N72-22491 *	US-PATENT-CLASS-220-9	c 23	N71-22881 *	US-PATENT-CLASS-229-DIG.11	c 32	N73-33921 *
US-PATENT-CLASS-219-234	c 15	N72-23497 *	US-PATENT-CLASS-220-9	c 18	N71-23658 *	US-PATENT-CLASS-23-109	c 04	N72-33072 *
US-PATENT-CLASS-219-243	c 15	N72-11392 *	US-PATENT-CLASS-220-9	c 15	N71-23816 *	US-PATENT-CLASS-23-201	c 06	N72-17095 *
US-PATENT-CLASS-219-273	c 15	N72-32487 *	US-PATENT-CLASS-220-9	c 33	N71-25351 *	US-PATENT-CLASS-23-208	c 15	N69-21922 *
US-PATENT-CLASS-219-275	c 15	N71-20395 *	US-PATENT-CLASS-221-265	c 51	N74-15778 *	US-PATENT-CLASS-23-208	c 26	N70-36805 *
US-PATENT-CLASS-219-275	c 20	N87-16875 *	US-PATENT-CLASS-221-31	c 31	N79-21225 *	US-PATENT-CLASS-23-209.1	c 15	N72-20446 *
US-PATENT-CLASS-219-285	c 37	N85-29286 *	US-PATENT-CLASS-222-135	c 15	N72-21465 *	US-PATENT-CLASS-23-230B	c 25	N75-14844 *
US-PATENT-CLASS-219-299	c 51	N79-10694 *	US-PATENT-CLASS-222-137	c 14	N71-27005 *	US-PATENT-CLASS-23-230B	c 23	N77-17161 *
US-PATENT-CLASS-219-300	c 37	N77-13418 *	US-PATENT-CLASS-222-145	c 37	N76-19436 *	US-PATENT-CLASS-23-230B	c 25	N79-14169 *
US-PATENT-CLASS-219-302	c 51	N79-10694 *	US-PATENT-CLASS-222-187	c 31	N90-23587 *	US-PATENT-CLASS-23-230B	c 51	N80-27067 *
US-PATENT-CLASS-219-304	c 37	N77-13418 *	US-PATENT-CLASS-222-193	c 37	N74-13178 *	US-PATENT-CLASS-23-230L	c 35	N74-32879 *
US-PATENT-CLASS-219-343	c 27	N83-36220 *	US-PATENT-CLASS-222-309	c 15	N72-21465 *	US-PATENT-CLASS-23-230M	c 25	N76-18245 *
US-PATENT-CLASS-219-347	c 15	N69-27871 *	US-PATENT-CLASS-222-309	c 54	N74-12779 *	US-PATENT-CLASS-23-230M	c 23	N77-17161 *
US-PATENT-CLASS-219-347	c 33	N70-34545 *	US-PATENT-CLASS-222-309	c 35	N85-21595 *	US-PATENT-CLASS-23-230PC	c 25	N78-15210 *
US-PATENT-CLASS-219-348	c 15	N73-27405 *	US-PATENT-CLASS-222-324	c 54	N74-17853 *	US-PATENT-CLASS-23-230PC	c 25	N82-12166 *
US-PATENT-CLASS-219-34	c 09	N70-33312 *	US-PATENT-CLASS-222-340	c 54	N74-12779 *	US-PATENT-CLASS-23-230R	c 06	N72-17094 *
US-PATENT-CLASS-219-354	c 27	N83-36220 *	US-PATENT-CLASS-222-340	c 35	N85-21595 *	US-PATENT-CLASS-23-230R	c 17	N73-12547 *
US-PATENT-CLASS-219-364	c 33	N71-16278 *	US-PATENT-CLASS-222-387	c 54	N74-12779 *	US-PATENT-CLASS-23-230R	c 17	N73-27446 *
US-PATENT-CLASS-219-378	c 33	N71-25353 *	US-PATENT-CLASS-222-389	c 15	N70-38996 *	US-PATENT-CLASS-23-230R	c 25	N76-18245 *
US-PATENT-CLASS-219-383	c 09	N88-28939 *	US-PATENT-CLASS-222-414	c 14	N73-27378 *	US-PATENT-CLASS-23-230R	c 45	N76-31714 *
US-PATENT-CLASS-219-388	c 35	N74-15831 *	US-PATENT-CLASS-222-43	c 35	N85-21595 *	US-PATENT-CLASS-23-230R	c 23	N77-17161 *
US-PATENT-CLASS-219-390	c 27	N83-36220 *	US-PATENT-CLASS-222-45	c 14	N70-40233 *	US-PATENT-CLASS-23-230	c 06	N71-23527 *
US-PATENT-CLASS-219-390	c 35	N86-20750 *	US-PATENT-CLASS-222-48	c 35	N85-21595 *	US-PATENT-CLASS-23-230	c 06	N72-17095 *
US-PATENT-CLASS-219-390	c 14	N91-27175 *	US-PATENT-CLASS-222-49	c 14	N71-27005 *	US-PATENT-CLASS-23-231	c 23	N77-17161 *
US-PATENT-CLASS-219-395	c 35	N86-20750 *	US-PATENT-CLASS-222-514	c 54	N74-12779 *	US-PATENT-CLASS-23-232C	c 06	N72-17094 *
US-PATENT-CLASS-219-396	c 35	N86-20750 *	US-PATENT-CLASS-222-61	c 27	N71-29155 *	US-PATENT-CLASS-23-232C	c 25	N76-18245 *
US-PATENT-CLASS-219-410	c 12	N79-26075 *	US-PATENT-CLASS-222-61	c 37	N77-28487 *	US-PATENT-CLASS-23-232C	c 23	N77-17161 *
US-PATENT-CLASS-219-411	c 17	N69-25147 *	US-PATENT-CLASS-222-71	c 15	N72-21465 *	US-PATENT-CLASS-23-232E	c 06	N73-16106 *
US-PATENT-CLASS-219-411	c 27	N83-36220 *	US-PATENT-CLASS-222-95	c 37	N77-28487 *	US-PATENT-CLASS-23-232E	c 45	N76-31714 *
US-PATENT-CLASS-219-413	c 14	N71-28958 *	US-PATENT-CLASS-224-25A	c 05	N72-23085 *	US-PATENT-CLASS-23-232E	c 25	N78-15210 *
US-PATENT-CLASS-219-477	c 33	N74-14935 *	US-PATENT-CLASS-224-25	c 05	N71-12351 *	US-PATENT-CLASS-23-232E	c 25	N82-12166 *
US-PATENT-CLASS-219-497	c 77	N75-20140 *	US-PATENT-CLASS-224-444	c 54	N74-17853 *	US-PATENT-CLASS-23-232R	c 06	N73-16106 *
US-PATENT-CLASS-219-499	c 14	N73-26430 *	US-PATENT-CLASS-225-103	c 37	N82-32730 *	US-PATENT-CLASS-23-232R	c 45	N76-31714 *
US-PATENT-CLASS-219-501	c 77	N75-20140 *	US-PATENT-CLASS-225-1	c 15	N71-17628 *	US-PATENT-CLASS-23-232R	c 23	N77-17161 *
US-PATENT-CLASS-219-505	c 14	N71-27058 *	US-PATENT-CLASS-225-2	c 26	N71-14354 *	US-PATENT-CLASS-23-232R	c 25	N78-15210 *
US-PATENT-CLASS-219-505	c 77	N75-20140 *	US-PATENT-CLASS-226-190	c 08	N71-19420 *	US-PATENT-CLASS-23-252R	c 25	N74-12813 *
US-PATENT-CLASS-219-50	c 14	N73-26430 *	US-PATENT-CLASS-226-58	c 14	N71-28935 *	US-PATENT-CLASS-23-252R	c 25	N79-10162 *
US-PATENT-CLASS-219-510	c 35	N81-26431 *	US-PATENT-CLASS-227-27	c 37	N86-25790 *	US-PATENT-CLASS-23-252R	c 25	N79-28253 *
US-PATENT-CLASS-219-522	c 11	N73-12265 *	US-PATENT-CLASS-227-28	c 37	N86-25790 *	US-PATENT-CLASS-23-253A	c 51	N77-27677 *
US-PATENT-CLASS-219-522	c 52	N80-16725 *	US-PATENT-CLASS-228-103	c 35	N83-35338 *	US-PATENT-CLASS-23-253A	c 54	N78-14784 *
US-PATENT-CLASS-219-522	c 27	N84-33589 *	US-PATENT-CLASS-228-107	c 37	N79-13364 *	US-PATENT-CLASS-23-253PC	c 06	N72-17094 *
US-PATENT-CLASS-219-530	c 33	N71-25353 *	US-PATENT-CLASS-228-107	c 37	N88-14359 *	US-PATENT-CLASS-23-253PC	c 37	N74-18123 *
US-PATENT-CLASS-219-539	c 33	N74-14935 *	US-PATENT-CLASS-228-107	c 31	N91-31476 *	US-PATENT-CLASS-23-253R	c 15	N72-14665 *
US-PATENT-CLASS-219-541	c 27	N84-33589 *	US-PATENT-CLASS-228-107	c 31	N92-16162 *	US-PATENT-CLASS-23-253R	c 25	N75-14844 *
US-PATENT-CLASS-219-543	c 27	N84-33589 *	US-PATENT-CLASS-228-116	c 37	N88-14359 *	US-PATENT-CLASS-23-253R	c 25	N76-18245 *
US-PATENT-CLASS-219-545	c 33	N82-26571 *	US-PATENT-CLASS-228-118	c 24	N81-19455 *	US-PATENT-CLASS-23-253	c 23	N71-16355 *
US-PATENT-CLASS-219-62	c 15	N73-28515 *	US-PATENT-CLASS-228-118	c 24	N81-17170 *	US-PATENT-CLASS-23-253	c 06	N71-26754 *
US-PATENT-CLASS-219-69.11	c 27	N91-25296 *	US-PATENT-CLASS-228-119	c 37	N81-26179 *	US-PATENT-CLASS-23-253	c 06	N72-17095 *
US-PATENT-CLASS-219-69.12	c 37	N91-32508 *	US-PATENT-CLASS-228-124	c 37	N86-32736 *	US-PATENT-CLASS-23-254EF	c 35	N76-18403 *
US-PATENT-CLASS-219-69.17	c 35	N92-22038 *	US-PATENT-CLASS-228-124	c 26	N77-29260 *	US-PATENT-CLASS-23-254E	c 06	N73-16106 *
US-PATENT-CLASS-219-72	c 15	N71-14932 *	US-PATENT-CLASS-228-124	c 37	N87-21334 *	US-PATENT-CLASS-23-254E	c 33	N75-26245 *
US-PATENT-CLASS-219-72	c 37	N90-19602 *	US-PATENT-CLASS-228-13	c 18	N79-11108 *	US-PATENT-CLASS-23-254E	c 35	N75-29380 *
US-PATENT-CLASS-219-74	c 74	N87-25843 *	US-PATENT-CLASS-228-15.1	c 18	N79-11108 *	US-PATENT-CLASS-23-254E	c 45	N76-21742 *
US-PATENT-CLASS-219-74	c 37	N90-19602 *	US-PATENT-CLASS-228-157	c 24	N82-24296 *	US-PATENT-CLASS-23-254R	c 06	N73-16106 *
US-PATENT-CLASS-219-75	c 37	N88-23980 *	US-PATENT-CLASS-228-165	c 24	N84-11214 *	US-PATENT-CLASS-23-254R	c 25	N76-18245 *
US-PATENT-CLASS-219-75	c 31	N90-23586 *	US-PATENT-CLASS-228-173	c 35	N84-22930 *	US-PATENT-CLASS-23-254R	c 23	N77-17161 *
US-PATENT-CLASS-219-75	c 31	N90-26168 *	US-PATENT-CLASS-228-173	c 24	N81-17170 *	US-PATENT-CLASS-23-254	c 14	N71-20442 *
US-PATENT-CLASS-219-75	c 75	N91-25875 *	US-PATENT-CLASS-228-181	c 18	N79-11108 *	US-PATENT-CLASS-23-255E	c 35	N75-29380 *
US-PATENT-CLASS-219-76.14	c 24	N85-30027 *	US-PATENT-CLASS-228-190	c 24	N81-17170 *	US-PATENT-CLASS-23-255R	c 25	N76-18245 *
US-PATENT-CLASS-219-76.16	c 75	N91-25875 *	US-PATENT-CLASS-228-190	c 24	N84-11214 *	US-PATENT-CLASS-23-259	c 15	N71-27372 *
US-PATENT-CLASS-219-78	c 37	N74-11300 *	US-PATENT-CLASS-228-190	c 24	N75-28135 *	US-PATENT-CLASS-23-259	c 15	N72-21465 *
US-PATENT-CLASS-219-85CA	c 35	N80-20560 *	US-PATENT-CLASS-228-190	c 26	N77-28265 *	US-PATENT-CLASS-23-259	c 37	N74-18123 *
US-PATENT-CLASS-219-85CM	c 35	N80-20560 *	US-PATENT-CLASS-228-190	c 24	N81-17170 *	US-PATENT-CLASS-23-259	c 51	N77-27677 *
US-PATENT-CLASS-219-85R	c 35	N80-20560 *	US-PATENT-CLASS-228-193	c 24	N81-26179 *	US-PATENT-CLASS-23-277C	c 25	N74-33378 *
US-PATENT-CLASS-219-85	c 15	N72-22491 *	US-PATENT-CLASS-228-193	c 24	N75-28135 *	US-PATENT-CLASS-23-277R	c 44	N77-22607 *
US-PATENT-CLASS-219-85	c 15	N72-23497 *	US-PATENT-CLASS-228-193	c 37	N76-18455 *	US-PATENT-CLASS-23-277	c 26	N70-40015 *
US-PATENT-CLASS-219-91	c 15	N71-18613 *	US-PATENT-CLASS-228-194	c 35	N83-35338 *	US-PATENT-CLASS-23-281	c 28	N72-18766 *
US-PATENT-CLASS-219-91	c 15	N73-32358 *		c 26	N77-28265 *		c 25	N74-12813 *

REPORT NUMBER INDEX

US-PATENT-CLASS-244-1R

US-PATENT-CLASS-23-281	c 44	N76-18642 *	US-PATENT-CLASS-235-181	c 38	N78-17395 *	US-PATENT-CLASS-239-265.11	c 37	N92-22043 *
US-PATENT-CLASS-23-281	c 44	N76-29700 *	US-PATENT-CLASS-235-183	c 08	N72-22165 *	US-PATENT-CLASS-239-265.15	c 37	N79-22474 *
US-PATENT-CLASS-23-281	c 44	N77-10636 *	US-PATENT-CLASS-235-184	c 74	N76-18913 *	US-PATENT-CLASS-239-265.17	c 07	N74-27490 *
US-PATENT-CLASS-23-281	c 44	N77-22607 *	US-PATENT-CLASS-235-186	c 10	N73-26230 *	US-PATENT-CLASS-239-265.17	c 07	N83-33884 *
US-PATENT-CLASS-23-284	c 35	N74-15127 *	US-PATENT-CLASS-235-194	c 09	N71-19480 *	US-PATENT-CLASS-239-265.17	c 71	N84-14873 *
US-PATENT-CLASS-23-288F	c 25	N74-12813 *	US-PATENT-CLASS-235-194	c 08	N72-22165 *	US-PATENT-CLASS-239-265.17	c 20	N89-25279 *
US-PATENT-CLASS-23-288J	c 25	N74-12813 *	US-PATENT-CLASS-235-194	c 10	N73-26230 *	US-PATENT-CLASS-239-265.19	c 28	N71-21493 *
US-PATENT-CLASS-23-288R	c 28	N80-10374 *	US-PATENT-CLASS-235-197	c 08	N72-22165 *	US-PATENT-CLASS-239-265.19	c 28	N72-11708 *
US-PATENT-CLASS-23-288	c 28	N72-18766 *	US-PATENT-CLASS-235-197	c 09	N72-23173 *	US-PATENT-CLASS-239-265.25	c 07	N78-27121 *
US-PATENT-CLASS-23-292	c 51	N77-27677 *	US-PATENT-CLASS-235-197	c 10	N73-20253 *	US-PATENT-CLASS-239-265.25	c 09	N78-31129 *
US-PATENT-CLASS-23-293R	c 28	N81-15119 *	US-PATENT-CLASS-235-197	c 10	N73-26230 *	US-PATENT-CLASS-239-265.33	c 07	N89-27121 *
US-PATENT-CLASS-23-295R	c 76	N85-29800 *	US-PATENT-CLASS-235-197	c 60	N75-13539 *	US-PATENT-CLASS-239-265.33	c 07	N80-32392 *
US-PATENT-CLASS-23-300	c 28	N80-23471 *	US-PATENT-CLASS-235-201	c 10	N71-25899 *	US-PATENT-CLASS-239-265.39	c 07	N79-14097 *
US-PATENT-CLASS-23-302A	c 28	N80-23471 *	US-PATENT-CLASS-235-61.6	c 01	N71-13411 *	US-PATENT-CLASS-239-265.43	c 28	N71-16224 *
US-PATENT-CLASS-23-302R	c 28	N80-23471 *	US-PATENT-CLASS-235-61.6	c 15	N71-21179 *	US-PATENT-CLASS-239-265.43	c 28	N72-11708 *
US-PATENT-CLASS-23-302T	c 28	N80-23471 *	US-PATENT-CLASS-235-61INV	c 08	N72-11172 *	US-PATENT-CLASS-239-288	c 37	N79-22474 *
US-PATENT-CLASS-23-313R	c 71	N85-22104 *	US-PATENT-CLASS-235-61INV	c 35	N76-29552 *	US-PATENT-CLASS-239-288	c 37	N85-29283 *
US-PATENT-CLASS-23-55	c 06	N72-17093 *	US-PATENT-CLASS-235-70	c 04	N78-17031 *	US-PATENT-CLASS-239-302	c 37	N80-10494 *
US-PATENT-CLASS-23-88	c 06	N72-17093 *	US-PATENT-CLASS-235-78M	c 35	N76-29552 *	US-PATENT-CLASS-239-322	c 37	N85-29283 *
US-PATENT-CLASS-23-927	c 51	N80-16714 *	US-PATENT-CLASS-235-88M	c 35	N76-29552 *	US-PATENT-CLASS-239-327	c 37	N85-29283 *
US-PATENT-CLASS-23-97	c 06	N72-17093 *	US-PATENT-CLASS-235-92CA	c 33	N74-10223 *	US-PATENT-CLASS-239-375	c 37	N85-29283 *
US-PATENT-CLASS-230-162	c 33	N71-17610 *	US-PATENT-CLASS-235-92CA	c 38	N77-17495 *	US-PATENT-CLASS-239-402.5	c 07	N85-35195 *
US-PATENT-CLASS-230-221	c 11	N72-22245 *	US-PATENT-CLASS-235-92CC	c 08	N72-20176 *	US-PATENT-CLASS-239-403	c 20	N87-14420 *
US-PATENT-CLASS-230-54	c 11	N72-22245 *	US-PATENT-CLASS-235-92CT	c 38	N77-17495 *	US-PATENT-CLASS-239-416	c 15	N69-23185 *
US-PATENT-CLASS-233-DIG.1	c 34	N75-26282 *	US-PATENT-CLASS-235-92CV	c 08	N73-25206 *	US-PATENT-CLASS-239-416	c 15	N71-17654 *
US-PATENT-CLASS-233-11	c 15	N71-16079 *	US-PATENT-CLASS-235-92DE	c 08	N72-20176 *	US-PATENT-CLASS-239-418	c 28	N72-23809 *
US-PATENT-CLASS-233-20RP	c 34	N75-26282 *	US-PATENT-CLASS-235-92DM	c 08	N72-20176 *	US-PATENT-CLASS-239-424	c 15	N72-25455 *
US-PATENT-CLASS-233-25	c 34	N75-26282 *	US-PATENT-CLASS-235-92DM	c 33	N74-10223 *	US-PATENT-CLASS-239-425	c 20	N87-14420 *
US-PATENT-CLASS-233-46	c 34	N75-26282 *	US-PATENT-CLASS-235-92DM	c 33	N75-19519 *	US-PATENT-CLASS-239-426	c 34	N84-12406 *
US-PATENT-CLASS-233-6	c 34	N75-26282 *	US-PATENT-CLASS-235-92DN	c 08	N73-25206 *	US-PATENT-CLASS-239-426	c 34	N87-21255 *
US-PATENT-CLASS-235.150.27	c 04	N74-13420 *	US-PATENT-CLASS-235-92DN	c 38	N77-17495 *	US-PATENT-CLASS-239-433	c 28	N72-23809 *
US-PATENT-CLASS-235-10.2	c 08	N73-25206 *	US-PATENT-CLASS-235-92EA	c 08	N73-25206 *	US-PATENT-CLASS-239-433	c 37	N87-24689 *
US-PATENT-CLASS-235-150.1	c 08	N71-29033 *	US-PATENT-CLASS-235-92EV	c 08	N73-25206 *	US-PATENT-CLASS-239-434	c 34	N87-21255 *
US-PATENT-CLASS-235-150.1	c 08	N72-31226 *	US-PATENT-CLASS-235-92FQ	c 08	N73-20217 *	US-PATENT-CLASS-239-499	c 34	N82-13376 *
US-PATENT-CLASS-235-150.1	c 32	N77-10392 *	US-PATENT-CLASS-235-92LG	c 08	N72-20176 *	US-PATENT-CLASS-239-533.13	c 34	N92-21724 *
US-PATENT-CLASS-235-150.22	c 02	N71-13421 *	US-PATENT-CLASS-235-92LG	c 33	N75-19519 *	US-PATENT-CLASS-239-543	c 28	N72-23809 *
US-PATENT-CLASS-235-150.22	c 04	N74-13420 *	US-PATENT-CLASS-235-92MT	c 08	N72-31226 *	US-PATENT-CLASS-239-543	c 31	N90-20254 *
US-PATENT-CLASS-235-150.25	c 21	N71-21688 *	US-PATENT-CLASS-235-92MT	c 32	N73-26910 *	US-PATENT-CLASS-239-543	c 34	N92-21724 *
US-PATENT-CLASS-235-150.25	c 35	N77-20399 *	US-PATENT-CLASS-235-92PC	c 35	N82-11431 *	US-PATENT-CLASS-239-545	c 34	N87-21255 *
US-PATENT-CLASS-235-150.26	c 04	N74-13420 *	US-PATENT-CLASS-235-92PE	c 37	N74-21056 *	US-PATENT-CLASS-239-546	c 34	N92-21724 *
US-PATENT-CLASS-235-150.27	c 08	N71-29033 *	US-PATENT-CLASS-235-92R	c 08	N72-20176 *	US-PATENT-CLASS-239-552	c 34	N92-21724 *
US-PATENT-CLASS-235-150.2	c 08	N71-29033 *	US-PATENT-CLASS-235-92R	c 08	N73-20217 *	US-PATENT-CLASS-239-562	c 43	N81-26509 *
US-PATENT-CLASS-235-150.2	c 35	N77-20399 *	US-PATENT-CLASS-235-92R	c 08	N73-25206 *	US-PATENT-CLASS-239-568	c 37	N84-16561 *
US-PATENT-CLASS-235-150.3	c 33	N74-10223 *	US-PATENT-CLASS-235-92R	c 33	N75-19519 *	US-PATENT-CLASS-239-589	c 34	N82-13376 *
US-PATENT-CLASS-235-150.52	c 08	N72-22165 *	US-PATENT-CLASS-235-92R	c 38	N77-17495 *	US-PATENT-CLASS-239-590	c 37	N85-29283 *
US-PATENT-CLASS-235-150.53	c 08	N72-22165 *	US-PATENT-CLASS-235-92SB	c 37	N74-21056 *	US-PATENT-CLASS-239-591	c 43	N81-26509 *
US-PATENT-CLASS-235-150.53	c 07	N73-13149 *	US-PATENT-CLASS-235-92SB	c 33	N76-14373 *	US-PATENT-CLASS-239-596	c 37	N87-24689 *
US-PATENT-CLASS-235-150.53	c 33	N75-26243 *	US-PATENT-CLASS-235-92T	c 03	N72-25020 *	US-PATENT-CLASS-239-597	c 31	N91-15424 *
US-PATENT-CLASS-235-151.13	c 25	N76-18245 *	US-PATENT-CLASS-235-92T	c 08	N73-20217 *	US-PATENT-CLASS-239-600	c 37	N87-24689 *
US-PATENT-CLASS-235-151.1	c 08	N71-29033 *	US-PATENT-CLASS-235-92T	c 33	N75-19519 *	US-PATENT-CLASS-239-601	c 34	N82-13376 *
US-PATENT-CLASS-235-151.1	c 08	N72-31226 *	US-PATENT-CLASS-235-92VA	c 33	N75-19519 *	US-PATENT-CLASS-239-601	c 31	N91-15424 *
US-PATENT-CLASS-235-151.27	c 08	N73-25206 *	US-PATENT-CLASS-235-92	c 08	N71-22897 *	US-PATENT-CLASS-239-602	c 34	N92-21724 *
US-PATENT-CLASS-235-151.31	c 10	N73-25240 *	US-PATENT-CLASS-235-92	c 08	N71-24891 *	US-PATENT-CLASS-239-690	c 28	N82-18401 *
US-PATENT-CLASS-235-151.34	c 35	N76-14431 *	US-PATENT-CLASS-235-92	c 10	N71-27137 *	US-PATENT-CLASS-24-126	c 15	N71-22994 *
US-PATENT-CLASS-235-151.3	c 52	N74-22771 *	US-PATENT-CLASS-235-92	c 14	N71-27215 *	US-PATENT-CLASS-24-134R	c 15	N73-25512 *
US-PATENT-CLASS-235-151.3	c 38	N78-17395 *	US-PATENT-CLASS-236-1F	c 35	N81-26431 *	US-PATENT-CLASS-24-205.17	c 15	N71-25975 *
US-PATENT-CLASS-235-151.3	c 38	N78-17396 *	US-PATENT-CLASS-236-1F	c 31	N80-32583 *	US-PATENT-CLASS-24-211N	c 15	N72-11385 *
US-PATENT-CLASS-235-151	c 37	N74-21056 *	US-PATENT-CLASS-236-15-E	c 25	N88-29002 *	US-PATENT-CLASS-24-211	c 15	N71-17653 *
US-PATENT-CLASS-235-152IE	c 08	N73-32081 *	US-PATENT-CLASS-236-1	c 35	N71-16357 *	US-PATENT-CLASS-24-214	c 31	N83-31895 *
US-PATENT-CLASS-235-152	c 07	N71-24741 *	US-PATENT-CLASS-236-44A	c 33	N91-21496 *	US-PATENT-CLASS-24-263	c 15	N71-21076 *
US-PATENT-CLASS-235-152	c 08	N72-20176 *	US-PATENT-CLASS-236-44C	c 31	N80-32583 *	US-PATENT-CLASS-24-263	c 15	N71-26162 *
US-PATENT-CLASS-235-152	c 08	N72-22167 *	US-PATENT-CLASS-236-49	c 31	N74-27902 *	US-PATENT-CLASS-24-304	c 27	N85-20125 *
US-PATENT-CLASS-235-152	c 08	N72-25210 *	US-PATENT-CLASS-236-49	c 31	N80-32583 *	US-PATENT-CLASS-24-447	c 27	N85-20125 *
US-PATENT-CLASS-235-152	c 08	N73-12175 *	US-PATENT-CLASS-236-68	c 15	N72-12409 *	US-PATENT-CLASS-24-450	c 27	N85-20125 *
US-PATENT-CLASS-235-152	c 09	N73-13209 *	US-PATENT-CLASS-236-94	c 35	N91-21496 *	US-PATENT-CLASS-24-560	c 52	N84-28388 *
US-PATENT-CLASS-235-152	c 08	N73-26175 *	US-PATENT-CLASS-237-1A	c 44	N76-14602 *	US-PATENT-CLASS-24-635	c 37	N90-17154 *
US-PATENT-CLASS-235-152	c 60	N77-14751 *	US-PATENT-CLASS-237-1A	c 44	N78-10554 *	US-PATENT-CLASS-24-68B	c 54	N89-29953 *
US-PATENT-CLASS-235-153AE	c 60	N76-21914 *	US-PATENT-CLASS-237-1A	c 44	N78-15560 *	US-PATENT-CLASS-24-693	c 27	N85-20125 *
US-PATENT-CLASS-235-153AK	c 62	N74-14920 *	US-PATENT-CLASS-237-1A	c 44	N78-17460 *	US-PATENT-CLASS-240-1.2	c 11	N70-33329 *
US-PATENT-CLASS-235-153	c 08	N71-24633 *	US-PATENT-CLASS-237-1A	c 44	N78-31525 *	US-PATENT-CLASS-240-11.2	c 09	N71-26787 *
US-PATENT-CLASS-235-153	c 08	N72-22166 *	US-PATENT-CLASS-237-1A	c 44	N79-24433 *	US-PATENT-CLASS-240-11.4	c 09	N71-26787 *
US-PATENT-CLASS-235-154	c 08	N70-34778 *	US-PATENT-CLASS-237-60	c 34	N76-17317 *	US-PATENT-CLASS-240-41.35R	c 74	N77-21941 *
US-PATENT-CLASS-235-154	c 10	N71-23662 *	US-PATENT-CLASS-238-134	c 85	N74-34672 *	US-PATENT-CLASS-240-41B	c 36	N75-27364 *
US-PATENT-CLASS-235-154	c 08	N72-18184 *	US-PATENT-CLASS-238-1	c 05	N71-28619 *	US-PATENT-CLASS-240-41R	c 74	N77-21941 *
US-PATENT-CLASS-235-154	c 08	N72-25206 *	US-PATENT-CLASS-239-DIG.23	c 37	N85-29283 *	US-PATENT-CLASS-240-46.13	c 74	N77-21941 *
US-PATENT-CLASS-235-155	c 08	N71-24890 *	US-PATENT-CLASS-239-102	c 37	N80-10494 *	US-PATENT-CLASS-240-47	c 34	N77-23066 *
US-PATENT-CLASS-235-155	c 08	N72-21197 *	US-PATENT-CLASS-239-127.1	c 28	N71-23968 *	US-PATENT-CLASS-240-51.11	c 09	N71-26787 *
US-PATENT-CLASS-235-155	c 08	N73-12176 *	US-PATENT-CLASS-239-127.1	c 28	N73-32606 *	US-PATENT-CLASS-241-95	c 37	N84-16561 *
US-PATENT-CLASS-235-156	c 08	N71-18693 *	US-PATENT-CLASS-239-127.1	c 34	N79-13288 *	US-PATENT-CLASS-242-107	c 33	N86-20669 *
US-PATENT-CLASS-235-156	c 60	N75-13539 *	US-PATENT-CLASS-239-127.1	c 34	N79-13289 *	US-PATENT-CLASS-242-128	c 15	N82-24272 *
US-PATENT-CLASS-235-156	c 32	N76-21366 *	US-PATENT-CLASS-239-127.1	c 34	N80-24573 *	US-PATENT-CLASS-242-187	c 37	N77-14479 *
US-PATENT-CLASS-235-156	c 32	N77-10392 *	US-PATENT-CLASS-239-127.1	c 44	N81-24519 *	US-PATENT-CLASS-242-192	c 14	N71-23698 *
US-PATENT-CLASS-235-156	c 38	N78-17395 *	US-PATENT-CLASS-239-127.1	c 37	N92-16318 *	US-PATENT-CLASS-242-193	c 37	N77-14479 *
US-PATENT-CLASS-235-156	c 38	N78-17396 *	US-PATENT-CLASS-239-127.3	c 20	N76-14191 *	US-PATENT-CLASS-242-204	c 37	N77-14479 *
US-PATENT-CLASS-235-158	c 08	N71-19437 *	US-PATENT-CLASS-239-127.3	c 07	N80-32392 *	US-PATENT-CLASS-242-210	c 37	N77-14479 *
US-PATENT-CLASS-235-164	c 08	N71-33110 *	US-PATENT-CLASS-239-127.3	c 37	N92-16318 *	US-PATENT-CLASS-242-54-R	c 33	N86-20669 *
US-PATENT-CLASS-235-164	c 08	N73-26175 *	US-PATENT-CLASS-239-132.5	c 20	N87-14420 *	US-PATENT-CLASS-242-54	c 15	N72-18477 *
US-PATENT-CLASS-235-164	c 60	N74-20836 *	US-PATENT-CLASS-239-14.1	c 09	N89-25242 *	US-PATENT-CLASS-242-55.19	c 14	N70-41647 *
US-PATENT-CLASS-235-175	c 08	N71-18602 *	US-PATENT-CLASS-239-145	c 31	N90-23587 *	US-PATENT-CLASS-242-55.19	c 07	N71-10609 *
US-PATENT-CLASS-235-175	c 08	N71-33110 *	US-PATENT-CLASS-239-171	c 37	N77-13418 *	US-PATENT-CLASS-242-57	c 37	N77-14479 *
US-PATENT-CLASS-235-176	c 08	N70-34787 *	US-PATENT-CLASS-239-2.1	c 09	N89-25242 *	US-PATENT-CLASS-244.12.2	c 05	N82-26277 *
US-PATENT-CLASS-235-181	c 07	N71-21476 *	US-PATENT-CLASS-239-265.11	c 18	N71-21068 *	US-PATENT-CLASS-244-ISS	c 03	N72-20031 *
US-PATENT-CLASS-235-181	c 07	N73-13149 *	US-PATENT-CLASS-239-265.11	c 07	N74-33218 *	US-PATENT-CLASS-244-1.55	c 03	N73-20040 *
US-PATENT-CLASS-235-181	c 35	N75-21582 *	US-PATENT-CLASS-239-265.11	c 07	N76-18117 *	US-PATENT-CLASS-244-1-R	c 06	N87-22678 *
US-PATENT-CLASS-235-181	c 33	N75-26243 *	US-PATENT-CLASS-239-265.11	c 37	N90-23751 *	US-PATENT-CLASS-244-1R	c 33	N87-10429 *
US-PATENT-CLASS-235-181	c 43	N77-10584 *	US-PATENT-CLASS-239-265.11	c 37	N91-27560 *	US-PATENT-CLASS-244-1R	c 34	N79-31523 *

US-PATENT-CLASS-244-1R

REPORT NUMBER INDEX

US-PATENT-CLASS-244-1R	c 35	N90-22769 *	US-PATENT-CLASS-244-134-D	c 33	N87-28833 *	US-PATENT-CLASS-244-161	c 18	N83-29303 *
US-PATENT-CLASS-244-1SA	c 21	N72-21624 *	US-PATENT-CLASS-244-134-F	c 35	N88-29149 *	US-PATENT-CLASS-244-161	c 18	N84-22605 *
US-PATENT-CLASS-244-1SA	c 21	N72-25595 *	US-PATENT-CLASS-244-135R	c 34	N76-17317 *	US-PATENT-CLASS-244-161	c 16	N86-26352 *
US-PATENT-CLASS-244-1SA	c 03	N73-20039 *	US-PATENT-CLASS-244-135R	c 20	N80-10278 *	US-PATENT-CLASS-244-161	c 37	N87-25582 *
US-PATENT-CLASS-244-1SA	c 15	N73-25513 *	US-PATENT-CLASS-244-135	c 31	N70-42015 *	US-PATENT-CLASS-244-161	c 18	N89-25266 *
US-PATENT-CLASS-244-1SA	c 21	N73-30640 *	US-PATENT-CLASS-244-135	c 15	N73-12486 *	US-PATENT-CLASS-244-161	c 18	N89-28553 *
US-PATENT-CLASS-244-1SA	c 19	N74-15089 *	US-PATENT-CLASS-244-135	c 14	N73-27378 *	US-PATENT-CLASS-244-161	c 18	N90-20126 *
US-PATENT-CLASS-244-1SA	c 35	N74-28097 *	US-PATENT-CLASS-244-137.2	c 18	N91-14374 *	US-PATENT-CLASS-244-161	c 16	N90-22584 *
US-PATENT-CLASS-244-1SB	c 15	N73-12486 *	US-PATENT-CLASS-244-137.2	c 03	N91-15142 *	US-PATENT-CLASS-244-161	c 18	N91-14374 *
US-PATENT-CLASS-244-1SC	c 31	N73-32750 *	US-PATENT-CLASS-244-137.2	c 03	N91-31113 *	US-PATENT-CLASS-244-162	c 18	N75-19329 *
US-PATENT-CLASS-244-1SC	c 34	N75-12222 *	US-PATENT-CLASS-244-137.4	c 05	N90-20079 *	US-PATENT-CLASS-244-162	c 18	N76-17185 *
US-PATENT-CLASS-244-1SD	c 31	N73-26876 *	US-PATENT-CLASS-244-137.4	c 05	N91-27156 *	US-PATENT-CLASS-244-162	c 03	N91-15142 *
US-PATENT-CLASS-244-1SD	c 37	N74-27903 *	US-PATENT-CLASS-244-137-A	c 05	N87-14314 *	US-PATENT-CLASS-244-162	c 18	N92-21999 *
US-PATENT-CLASS-244-1SD	c 15	N77-10112 *	US-PATENT-CLASS-244-137P	c 31	N73-26876 *	US-PATENT-CLASS-244-163	c 37	N76-19437 *
US-PATENT-CLASS-244-1SS	c 11	N73-13257 *	US-PATENT-CLASS-244-137P	c 37	N76-22540 *	US-PATENT-CLASS-244-163	c 24	N79-25142 *
US-PATENT-CLASS-244-1SS	c 03	N73-20039 *	US-PATENT-CLASS-244-137P	c 01	N83-35992 *	US-PATENT-CLASS-244-163	c 34	N79-31523 *
US-PATENT-CLASS-244-1SS	c 14	N73-27378 *	US-PATENT-CLASS-244-137R	c 08	N82-32373 *	US-PATENT-CLASS-244-163	c 05	N81-26114 *
US-PATENT-CLASS-244-1SS	c 31	N73-30829 *	US-PATENT-CLASS-244-138A	c 35	N90-22769 *	US-PATENT-CLASS-244-163	c 37	N82-16408 *
US-PATENT-CLASS-244-1SS	c 31	N73-32750 *	US-PATENT-CLASS-244-138	c 01	N69-39981 *	US-PATENT-CLASS-244-163	c 27	N82-29456 *
US-PATENT-CLASS-244-1SS	c 33	N73-32818 *	US-PATENT-CLASS-244-138	c 02	N70-41630 *	US-PATENT-CLASS-244-163	c 35	N85-29214 *
US-PATENT-CLASS-244-1SS	c 18	N74-22136 *	US-PATENT-CLASS-244-138	c 31	N71-16085 *	US-PATENT-CLASS-244-163	c 31	N76-14158 *
US-PATENT-CLASS-244-1SS	c 18	N74-27397 *	US-PATENT-CLASS-244-138	c 31	N71-25434 *	US-PATENT-CLASS-244-163	c 54	N91-31803 *
US-PATENT-CLASS-244-1SS	c 73	N75-30876 *	US-PATENT-CLASS-244-138	c 31	N71-28851 *	US-PATENT-CLASS-244-163	c 18	N92-21999 *
US-PATENT-CLASS-244-100	c 15	N70-34850 *	US-PATENT-CLASS-244-139	c 31	N73-13898 *	US-PATENT-CLASS-244-164	c 35	N89-15379 *
US-PATENT-CLASS-244-100	c 31	N70-36654 *	US-PATENT-CLASS-244-139	c 02	N76-16014 *	US-PATENT-CLASS-244-164	c 34	N91-25380 *
US-PATENT-CLASS-244-100	c 31	N70-36845 *	US-PATENT-CLASS-244-139	c 05	N85-21147 *	US-PATENT-CLASS-244-165	c 15	N76-14158 *
US-PATENT-CLASS-244-100	c 02	N70-41589 *	US-PATENT-CLASS-244-139	c 08	N85-35200 *	US-PATENT-CLASS-244-165	c 35	N77-20399 *
US-PATENT-CLASS-244-103R	c 37	N81-24443 *	US-PATENT-CLASS-244-139	c 02	N91-27139 *	US-PATENT-CLASS-244-165	c 35	N80-21719 *
US-PATENT-CLASS-244-103	c 02	N70-36825 *	US-PATENT-CLASS-244-13	c 01	N71-23497 *	US-PATENT-CLASS-244-165	c 08	N88-23808 *
US-PATENT-CLASS-244-110B	c 07	N82-26293 *	US-PATENT-CLASS-244-13	c 02	N73-26005 *	US-PATENT-CLASS-244-165	c 35	N89-15379 *
US-PATENT-CLASS-244-110C	c 37	N82-18601 *	US-PATENT-CLASS-244-13	c 05	N75-25914 *	US-PATENT-CLASS-244-165	c 34	N91-25380 *
US-PATENT-CLASS-244-113	c 02	N70-37939 *	US-PATENT-CLASS-244-13	c 05	N84-12154 *	US-PATENT-CLASS-244-167	c 15	N78-25119 *
US-PATENT-CLASS-244-113	c 31	N71-25434 *	US-PATENT-CLASS-244-140	c 02	N70-38009 *	US-PATENT-CLASS-244-168	c 04	N82-23231 *
US-PATENT-CLASS-244-113	c 02	N77-10001 *	US-PATENT-CLASS-244-145	c 02	N74-10034 *	US-PATENT-CLASS-244-169	c 15	N77-10113 *
US-PATENT-CLASS-244-113	c 37	N82-16408 *	US-PATENT-CLASS-244-147	c 05	N85-21147 *	US-PATENT-CLASS-244-169	c 18	N83-28064 *
US-PATENT-CLASS-244-113	c 08	N85-35200 *	US-PATENT-CLASS-244-14	c 14	N70-33322 *	US-PATENT-CLASS-244-169	c 20	N86-26368 *
US-PATENT-CLASS-244-113	c 02	N91-27139 *	US-PATENT-CLASS-244-14	c 18	N91-21222 *	US-PATENT-CLASS-244-16	c 02	N70-41863 *
US-PATENT-CLASS-244-114R	c 04	N82-16059 *	US-PATENT-CLASS-244-15.5	c 31	N72-18859 *	US-PATENT-CLASS-244-17.13	c 02	N73-19004 *
US-PATENT-CLASS-244-114	c 21	N72-22619 *	US-PATENT-CLASS-244-150	c 15	N71-24600 *	US-PATENT-CLASS-244-17.13	c 08	N79-23097 *
US-PATENT-CLASS-244-115	c 18	N83-29303 *	US-PATENT-CLASS-244-151R	c 33	N74-22865 *	US-PATENT-CLASS-244-17.19	c 08	N88-23809 *
US-PATENT-CLASS-244-117-A	c 24	N88-18628 *	US-PATENT-CLASS-244-152	c 02	N70-36804 *	US-PATENT-CLASS-244-17.25	c 05	N81-19087 *
US-PATENT-CLASS-244-117A	c 33	N73-25952 *	US-PATENT-CLASS-244-155	c 30	N73-12884 *	US-PATENT-CLASS-244-17.27	c 05	N87-14314 *
US-PATENT-CLASS-244-117A	c 34	N76-17317 *	US-PATENT-CLASS-244-155	c 31	N73-14854 *	US-PATENT-CLASS-244-170	c 35	N80-21719 *
US-PATENT-CLASS-244-117A	c 37	N76-19437 *	US-PATENT-CLASS-244-158R	c 20	N86-26368 *	US-PATENT-CLASS-244-170	c 18	N83-28064 *
US-PATENT-CLASS-244-117A	c 34	N77-18382 *	US-PATENT-CLASS-244-158-A	c 37	N85-30335 *	US-PATENT-CLASS-244-171	c 15	N77-10113 *
US-PATENT-CLASS-244-117A	c 05	N81-26114 *	US-PATENT-CLASS-244-158-A	c 05	N86-19310 *	US-PATENT-CLASS-244-171	c 35	N77-20399 *
US-PATENT-CLASS-244-117A	c 27	N84-27886 *	US-PATENT-CLASS-244-158-A	c 24	N88-18628 *	US-PATENT-CLASS-244-172	c 18	N76-17185 *
US-PATENT-CLASS-244-117	c 31	N70-33242 *	US-PATENT-CLASS-244-158-R	c 05	N86-19310 *	US-PATENT-CLASS-244-172	c 16	N84-27784 *
US-PATENT-CLASS-244-117	c 33	N72-17947 *	US-PATENT-CLASS-244-158-R	c 18	N86-20469 *	US-PATENT-CLASS-244-172	c 18	N84-27787 *
US-PATENT-CLASS-244-118.1	c 08	N82-32373 *	US-PATENT-CLASS-244-158A	c 27	N82-24339 *	US-PATENT-CLASS-244-172	c 05	N86-19310 *
US-PATENT-CLASS-244-118.1	c 18	N85-29991 *	US-PATENT-CLASS-244-158A	c 27	N82-29456 *	US-PATENT-CLASS-244-172	c 16	N90-22584 *
US-PATENT-CLASS-244-118.1	c 37	N85-34401 *	US-PATENT-CLASS-244-158A	c 24	N82-32417 *	US-PATENT-CLASS-244-173	c 44	N75-32581 *
US-PATENT-CLASS-244-118.1	c 05	N87-14314 *	US-PATENT-CLASS-244-158A	c 24	N83-13172 *	US-PATENT-CLASS-244-173	c 37	N81-15364 *
US-PATENT-CLASS-244-118.1	c 05	N91-27156 *	US-PATENT-CLASS-244-158A	c 16	N84-22601 *	US-PATENT-CLASS-244-173	c 07	N83-20944 *
US-PATENT-CLASS-244-119	c 02	N81-14968 *	US-PATENT-CLASS-244-158A	c 27	N84-27886 *	US-PATENT-CLASS-244-173	c 37	N86-25789 *
US-PATENT-CLASS-244-119	c 24	N82-24296 *	US-PATENT-CLASS-244-158A	c 24	N90-23480 *	US-PATENT-CLASS-244-175	c 04	N82-23231 *
US-PATENT-CLASS-244-119	c 24	N82-26384 *	US-PATENT-CLASS-244-158R	c 31	N81-25258 *	US-PATENT-CLASS-244-181	c 08	N81-24106 *
US-PATENT-CLASS-244-119	c 24	N84-11214 *	US-PATENT-CLASS-244-158R	c 16	N84-27784 *	US-PATENT-CLASS-244-181	c 08	N81-26152 *
US-PATENT-CLASS-244-119	c 05	N88-23765 *	US-PATENT-CLASS-244-158R	c 18	N85-29991 *	US-PATENT-CLASS-244-181	c 06	N86-27280 *
US-PATENT-CLASS-244-12.3	c 05	N88-28914 *	US-PATENT-CLASS-244-158R	c 37	N85-34401 *	US-PATENT-CLASS-244-182	c 08	N81-26152 *
US-PATENT-CLASS-244-12.4	c 05	N88-28914 *	US-PATENT-CLASS-244-158R	c 37	N87-17036 *	US-PATENT-CLASS-244-190	c 04	N82-23231 *
US-PATENT-CLASS-244-12.5	c 08	N81-19130 *	US-PATENT-CLASS-244-158R	c 18	N90-19278 *	US-PATENT-CLASS-244-194	c 60	N82-29013 *
US-PATENT-CLASS-244-120	c 05	N88-23765 *	US-PATENT-CLASS-244-158R	c 16	N90-22584 *	US-PATENT-CLASS-244-195	c 08	N79-23097 *
US-PATENT-CLASS-244-120	c 05	N91-31140 *	US-PATENT-CLASS-244-158R	c 18	N91-21222 *	US-PATENT-CLASS-244-195	c 08	N81-24106 *
US-PATENT-CLASS-244-121	c 27	N79-12221 *	US-PATENT-CLASS-244-158R	c 18	N92-15114 *	US-PATENT-CLASS-244-198	c 05	N92-21587 *
US-PATENT-CLASS-244-121	c 24	N79-25142 *	US-PATENT-CLASS-244-158R	c 16	N92-16007 *	US-PATENT-CLASS-244-199	c 07	N85-35194 *
US-PATENT-CLASS-244-121	c 15	N79-26100 *	US-PATENT-CLASS-244-158	c 37	N76-22540 *	US-PATENT-CLASS-244-199	c 02	N88-14071 *
US-PATENT-CLASS-244-121	c 27	N82-24339 *	US-PATENT-CLASS-244-158	c 27	N79-12221 *	US-PATENT-CLASS-244-199	c 05	N91-14345 *
US-PATENT-CLASS-244-121	c 27	N82-29456 *	US-PATENT-CLASS-244-159	c 18	N79-11108 *	US-PATENT-CLASS-244-199	c 05	N91-31140 *
US-PATENT-CLASS-244-121	c 37	N87-17036 *	US-PATENT-CLASS-244-159	c 07	N83-20944 *	US-PATENT-CLASS-244-1	c 31	N69-27499 *
US-PATENT-CLASS-244-121	c 16	N92-16007 *	US-PATENT-CLASS-244-159	c 31	N83-31895 *	US-PATENT-CLASS-244-1	c 03	N70-33343 *
US-PATENT-CLASS-244-122AD	c 03	N91-15142 *	US-PATENT-CLASS-244-159	c 18	N86-24729 *	US-PATENT-CLASS-244-1	c 33	N70-33344 *
US-PATENT-CLASS-244-122	c 05	N71-20718 *	US-PATENT-CLASS-244-159	c 37	N86-25789 *	US-PATENT-CLASS-244-1	c 03	N70-34157 *
US-PATENT-CLASS-244-123	c 24	N77-28225 *	US-PATENT-CLASS-244-159	c 18	N88-26398 *	US-PATENT-CLASS-244-1	c 31	N70-34176 *
US-PATENT-CLASS-244-123	c 24	N82-24296 *	US-PATENT-CLASS-244-159	c 18	N89-25266 *	US-PATENT-CLASS-244-1	c 21	N70-34295 *
US-PATENT-CLASS-244-123	c 24	N82-26384 *	US-PATENT-CLASS-244-159	c 18	N89-28553 *	US-PATENT-CLASS-244-1	c 31	N70-34296 *
US-PATENT-CLASS-244-123	c 24	N84-11214 *	US-PATENT-CLASS-244-159	c 18	N90-16860 *	US-PATENT-CLASS-244-1	c 21	N70-35395 *
US-PATENT-CLASS-244-127	c 34	N74-23039 *	US-PATENT-CLASS-244-159	c 18	N90-20126 *	US-PATENT-CLASS-244-1	c 31	N70-36410 *
US-PATENT-CLASS-244-129.4	c 16	N92-16007 *	US-PATENT-CLASS-244-159	c 18	N91-27201 *	US-PATENT-CLASS-244-1	c 33	N70-36617 *
US-PATENT-CLASS-244-129.5	c 18	N90-19278 *	US-PATENT-CLASS-244-159	c 54	N91-31803 *	US-PATENT-CLASS-244-1	c 21	N70-36943 *
US-PATENT-CLASS-244-12	c 02	N70-33332 *	US-PATENT-CLASS-244-15	c 05	N75-25914 *	US-PATENT-CLASS-244-1	c 31	N70-37924 *
US-PATENT-CLASS-244-130	c 02	N77-10001 *	US-PATENT-CLASS-244-15	c 05	N88-23765 *	US-PATENT-CLASS-244-1	c 31	N70-37938 *
US-PATENT-CLASS-244-130	c 02	N81-14968 *	US-PATENT-CLASS-244-160	c 27	N79-12221 *	US-PATENT-CLASS-244-1	c 31	N70-37986 *
US-PATENT-CLASS-244-130	c 37	N81-24443 *	US-PATENT-CLASS-244-160	c 43	N81-17499 *	US-PATENT-CLASS-244-1	c 31	N70-38676 *
US-PATENT-CLASS-244-130	c 02	N87-16793 *	US-PATENT-CLASS-244-160	c 14	N81-26161 *	US-PATENT-CLASS-244-1	c 30	N70-40016 *
US-PATENT-CLASS-244-130	c 07	N87-16828 *	US-PATENT-CLASS-244-160	c 27	N82-24339 *	US-PATENT-CLASS-244-1	c 31	N70-41373 *
US-PATENT-CLASS-244-130	c 02	N88-14071 *	US-PATENT-CLASS-244-160	c 27	N82-29456 *	US-PATENT-CLASS-244-1	c 31	N70-41588 *
US-PATENT-CLASS-244-130	c 05	N88-23765 *	US-PATENT-CLASS-244-160	c 16	N90-22584 *	US-PATENT-CLASS-244-1	c 31	N70-41631 *
US-PATENT-CLASS-244-130	c 05	N90-20078 *	US-PATENT-CLASS-244-160	c 18	N92-21999 *	US-PATENT-CLASS-244-1	c 31	N70-41855 *
US-PATENT-CLASS-244-130	c 05	N90-20079 *	US-PATENT-CLASS-244-161	c 18	N76-14186 *	US-PATENT-CLASS-244-1	c 21	N70-41856 *
US-PATENT-CLASS-244-130	c 34	N91-14562 *	US-PATENT-CLASS-244-161	c 37	N76-22540 *	US-PATENT-CLASS-244-1	c 31	N70-42075 *
US-PATENT-CLASS-244-130	c 05	N91-27156 *	US-PATENT-CLASS-244-161	c 37	N77-23483 *	US-PATENT-CLASS-244-1	c 03	N71-11058 *
US-PATENT-CLASS-244-132	c 24	N82-26384 *	US-PATENT-CLASS-244-161	c 15	N78-25119 *	US-PATENT-CLASS-244-1	c 33	N71-14035 *
US-PATENT-CLASS-244-132	c 24	N82-32417 *	US-PATENT-CLASS-244-161	c 37	N80-14398 *	US-PATENT-CLASS-244-1	c 21	N71-14132 *
US-PATENT-CLASS-244-133	c 31	N90-19427 *	US-PATENT-CLASS-244-161	c 37	N81-14320 *	US-PATENT-CLASS-244-1	c 21	N71-14159 *
US-PATENT-CLASS-244-134-D	c 33	N86-20671 *	US-PATENT-CLASS-244-161	c 37	N81-27519 *	US-PATENT-CLASS-244-1	c 21	N71-15583 *

US-PATENT-CLASS-244-1	c 31	N71-15663 *	US-PATENT-CLASS-244-45	c 02	N71-12243 *	US-PATENT-CLASS-248-178	c 37	N78-27425 *
US-PATENT-CLASS-244-1	c 31	N71-15674 *	US-PATENT-CLASS-244-46	c 02	N70-33266 *	US-PATENT-CLASS-248-181	c 37	N91-21543 *
US-PATENT-CLASS-244-1	c 31	N71-15676 *	US-PATENT-CLASS-244-46	c 02	N70-33286 *	US-PATENT-CLASS-248-183	c 14	N71-26627 *
US-PATENT-CLASS-244-1	c 02	N71-16087 *	US-PATENT-CLASS-244-46	c 02	N70-34178 *	US-PATENT-CLASS-248-186	c 15	N72-11386 *
US-PATENT-CLASS-244-1	c 31	N71-16222 *	US-PATENT-CLASS-244-46	c 02	N70-34858 *	US-PATENT-CLASS-248-188.4	c 37	N78-27425 *
US-PATENT-CLASS-244-1	c 31	N71-16345 *	US-PATENT-CLASS-244-46	c 31	N70-38010 *	US-PATENT-CLASS-248-188.9	c 15	N72-27484 *
US-PATENT-CLASS-244-1	c 31	N71-16346 *	US-PATENT-CLASS-244-46	c 02	N70-38011 *	US-PATENT-CLASS-248-188.9	c 31	N70-34159 *
US-PATENT-CLASS-244-1	c 31	N71-17679 *	US-PATENT-CLASS-244-46	c 02	N71-11041 *	US-PATENT-CLASS-248-18	c 14	N69-27486 *
US-PATENT-CLASS-244-1	c 15	N71-17693 *	US-PATENT-CLASS-244-46	c 02	N73-26005 *	US-PATENT-CLASS-248-18	c 15	N72-11391 *
US-PATENT-CLASS-244-1	c 31	N71-17729 *	US-PATENT-CLASS-244-46	c 05	N76-29217 *	US-PATENT-CLASS-248-20	c 15	N72-11391 *
US-PATENT-CLASS-244-1	c 15	N71-19214 *	US-PATENT-CLASS-244-46	c 05	N78-32086 *	US-PATENT-CLASS-248-228	c 37	N84-16560 *
US-PATENT-CLASS-244-1	c 03	N71-20273 *	US-PATENT-CLASS-244-46	c 08	N79-14108 *	US-PATENT-CLASS-248-229	c 37	N91-14617 *
US-PATENT-CLASS-244-1	c 31	N71-20396 *	US-PATENT-CLASS-244-46	c 05	N90-23390 *	US-PATENT-CLASS-248-22	c 19	N76-22284 *
US-PATENT-CLASS-244-1	c 31	N71-21064 *	US-PATENT-CLASS-244-48	c 05	N79-12061 *	US-PATENT-CLASS-248-230	c 37	N91-14617 *
US-PATENT-CLASS-244-1	c 14	N71-21082 *	US-PATENT-CLASS-244-48	c 05	N82-28279 *	US-PATENT-CLASS-248-23	c 18	N74-27397 *
US-PATENT-CLASS-244-1	c 21	N71-21708 *	US-PATENT-CLASS-244-49	c 43	N81-17499 *	US-PATENT-CLASS-248-278	c 15	N72-11386 *
US-PATENT-CLASS-244-1	c 31	N71-21881 *	US-PATENT-CLASS-244-4	c 05	N69-21380 *	US-PATENT-CLASS-248-27	c 15	N71-20813 *
US-PATENT-CLASS-244-1	c 33	N71-22792 *	US-PATENT-CLASS-244-4	c 05	N71-12336 *	US-PATENT-CLASS-248-316.4	c 37	N87-21333 *
US-PATENT-CLASS-244-1	c 31	N71-22968 *	US-PATENT-CLASS-244-4	c 28	N71-27585 *	US-PATENT-CLASS-248-317	c 11	N69-27466 *
US-PATENT-CLASS-244-1	c 31	N71-22969 *	US-PATENT-CLASS-244-50	c 02	N70-34160 *	US-PATENT-CLASS-248-346	c 14	N70-39898 *
US-PATENT-CLASS-244-1	c 31	N71-23009 *	US-PATENT-CLASS-244-51	c 02	N70-34856 *	US-PATENT-CLASS-248-358R	c 37	N75-18573 *
US-PATENT-CLASS-244-1	c 14	N71-23040 *	US-PATENT-CLASS-244-52	c 08	N81-19130 *	US-PATENT-CLASS-248-358R	c 19	N76-22284 *
US-PATENT-CLASS-244-1	c 31	N71-23912 *	US-PATENT-CLASS-244-53A	c 07	N81-18066 *	US-PATENT-CLASS-248-358	c 15	N70-40156 *
US-PATENT-CLASS-244-1	c 31	N71-24315 *	US-PATENT-CLASS-244-53B	c 02	N74-20646 *	US-PATENT-CLASS-248-358	c 23	N71-15673 *
US-PATENT-CLASS-244-1	c 15	N71-24600 *	US-PATENT-CLASS-244-53B	c 07	N75-24736 *	US-PATENT-CLASS-248-358	c 15	N71-24694 *
US-PATENT-CLASS-244-1	c 05	N71-24728 *	US-PATENT-CLASS-244-53B	c 07	N77-18154 *	US-PATENT-CLASS-248-36.3	c 37	N78-17383 *
US-PATENT-CLASS-244-1	c 33	N71-25353 *	US-PATENT-CLASS-244-53B	c 05	N79-24976 *	US-PATENT-CLASS-248-360	c 15	N71-17649 *
US-PATENT-CLASS-244-1	c 31	N71-25434 *	US-PATENT-CLASS-244-53B	c 85	N82-33288 *	US-PATENT-CLASS-248-361	c 05	N71-28619 *
US-PATENT-CLASS-244-1	c 31	N71-26537 *	US-PATENT-CLASS-244-53R	c 05	N84-12154 *	US-PATENT-CLASS-248-362	c 37	N76-21554 *
US-PATENT-CLASS-244-1	c 15	N71-26611 *	US-PATENT-CLASS-244-53R	c 28	N71-15563 *	US-PATENT-CLASS-248-363	c 37	N76-21554 *
US-PATENT-CLASS-244-1	c 28	N71-27095 *	US-PATENT-CLASS-244-54	c 07	N78-18066 *	US-PATENT-CLASS-248-425	c 37	N82-21587 *
US-PATENT-CLASS-244-1	c 21	N71-27324 *	US-PATENT-CLASS-244-54	c 07	N79-14096 *	US-PATENT-CLASS-248-487	c 15	N72-11386 *
US-PATENT-CLASS-244-1	c 33	N71-28903 *	US-PATENT-CLASS-244-54	c 05	N90-20078 *	US-PATENT-CLASS-248-503	c 18	N85-29991 *
US-PATENT-CLASS-244-1	c 15	N71-28936 *	US-PATENT-CLASS-244-55	c 02	N73-26005 *	US-PATENT-CLASS-248-548	c 37	N88-23982 *
US-PATENT-CLASS-244-1	c 31	N71-29050 *	US-PATENT-CLASS-244-55	c 05	N75-25914 *	US-PATENT-CLASS-248-550	c 37	N85-34401 *
US-PATENT-CLASS-244-1	c 31	N71-33160 *	US-PATENT-CLASS-244-55	c 05	N84-12154 *	US-PATENT-CLASS-248-550	c 37	N87-21333 *
US-PATENT-CLASS-244-200	c 02	N87-16793 *	US-PATENT-CLASS-244-55	c 07	N85-35194 *	US-PATENT-CLASS-248-555	c 18	N85-29991 *
US-PATENT-CLASS-244-200	c 02	N88-14071 *	US-PATENT-CLASS-244-55	c 07	N87-16828 *	US-PATENT-CLASS-248-593	c 37	N91-21541 *
US-PATENT-CLASS-244-200	c 05	N92-21587 *	US-PATENT-CLASS-244-55	c 05	N88-28914 *	US-PATENT-CLASS-248-604	c 37	N91-21541 *
US-PATENT-CLASS-244-203	c 34	N91-14562 *	US-PATENT-CLASS-244-55	c 05	N90-20078 *	US-PATENT-CLASS-248-608	c 37	N88-23982 *
US-PATENT-CLASS-244-204	c 02	N87-16793 *	US-PATENT-CLASS-244-57	c 15	N71-26611 *	US-PATENT-CLASS-248-636	c 35	N83-32026 *
US-PATENT-CLASS-244-204	c 34	N91-14562 *	US-PATENT-CLASS-244-58	c 05	N91-14345 *	US-PATENT-CLASS-248-638	c 35	N83-32026 *
US-PATENT-CLASS-244-207	c 05	N88-28914 *	US-PATENT-CLASS-244-63	c 09	N77-19076 *	US-PATENT-CLASS-248-638	c 05	N87-14314 *
US-PATENT-CLASS-244-212	c 05	N84-22551 *	US-PATENT-CLASS-244-63	c 14	N81-26161 *	US-PATENT-CLASS-248-650	c 37	N91-21543 *
US-PATENT-CLASS-244-212	c 05	N92-21587 *	US-PATENT-CLASS-244-63	c 16	N84-27784 *	US-PATENT-CLASS-248-677	c 37	N91-21543 *
US-PATENT-CLASS-244-213	c 08	N82-24205 *	US-PATENT-CLASS-244-63	c 18	N84-27787 *	US-PATENT-CLASS-248	c 25	N79-28253 *
US-PATENT-CLASS-244-214	c 08	N85-19985 *	US-PATENT-CLASS-244-63	c 14	N92-15081 *	US-PATENT-CLASS-249-127	c 31	N90-21216 *
US-PATENT-CLASS-244-215	c 05	N84-22551 *	US-PATENT-CLASS-244-75-R	c 08	N85-35200 *	US-PATENT-CLASS-249-144	c 31	N75-13111 *
US-PATENT-CLASS-244-215	c 05	N92-21587 *	US-PATENT-CLASS-244-75-R	c 05	N89-11738 *	US-PATENT-CLASS-249-145	c 31	N74-32920 *
US-PATENT-CLASS-244-216	c 05	N84-22551 *	US-PATENT-CLASS-244-75A	c 02	N73-26004 *	US-PATENT-CLASS-249-145	c 31	N75-13111 *
US-PATENT-CLASS-244-217	c 37	N82-16408 *	US-PATENT-CLASS-244-75R	c 05	N75-12930 *	US-PATENT-CLASS-249-184	c 31	N74-32920 *
US-PATENT-CLASS-244-218	c 05	N78-32086 *	US-PATENT-CLASS-244-75R	c 05	N85-21147 *	US-PATENT-CLASS-249-59	c 31	N75-13111 *
US-PATENT-CLASS-244-218	c 08	N79-14108 *	US-PATENT-CLASS-244-75R	c 05	N90-23390 *	US-PATENT-CLASS-249-83	c 31	N74-32920 *
US-PATENT-CLASS-244-219	c 05	N84-22551 *	US-PATENT-CLASS-244-75R	c 02	N91-27139 *	US-PATENT-CLASS-249-95	c 31	N74-32920 *
US-PATENT-CLASS-244-226	c 08	N82-24205 *	US-PATENT-CLASS-244-75R	c 05	N91-31140 *	US-PATENT-CLASS-25-156	c 15	N71-16076 *
US-PATENT-CLASS-244-23A	c 21	N72-25595 *	US-PATENT-CLASS-244-76-R	c 08	N87-20999 *	US-PATENT-CLASS-250-105	c 14	N70-40240 *
US-PATENT-CLASS-244-23C	c 05	N82-26277 *	US-PATENT-CLASS-244-76C	c 02	N73-26004 *	US-PATENT-CLASS-250-105	c 14	N73-30389 *
US-PATENT-CLASS-244-23D	c 34	N86-18364 *	US-PATENT-CLASS-244-76	c 21	N70-34539 *	US-PATENT-CLASS-250-199	c 16	N69-27491 *
US-PATENT-CLASS-244-234	c 08	N86-27288 *	US-PATENT-CLASS-244-76	c 02	N71-13422 *	US-PATENT-CLASS-250-199	c 07	N71-12389 *
US-PATENT-CLASS-244-23	c 02	N71-11039 *	US-PATENT-CLASS-244-76	c 02	N71-20570 *	US-PATENT-CLASS-250-199	c 16	N71-22895 *
US-PATENT-CLASS-244-2	c 14	N81-26161 *	US-PATENT-CLASS-244-77A	c 04	N74-13420 *	US-PATENT-CLASS-250-199	c 16	N71-25914 *
US-PATENT-CLASS-244-2	c 18	N84-27787 *	US-PATENT-CLASS-244-77B	c 04	N74-13420 *	US-PATENT-CLASS-250-199	c 16	N71-27183 *
US-PATENT-CLASS-244-3.14	c 31	N71-17691 *	US-PATENT-CLASS-244-77D	c 02	N73-19004 *	US-PATENT-CLASS-250-199	c 16	N73-16536 *
US-PATENT-CLASS-244-3.16	c 19	N74-15089 *	US-PATENT-CLASS-244-77D	c 02	N73-26004 *	US-PATENT-CLASS-250-199	c 07	N73-26119 *
US-PATENT-CLASS-244-3.21	c 30	N72-17873 *	US-PATENT-CLASS-244-77G	c 02	N73-26004 *	US-PATENT-CLASS-250-199	c 74	N76-18913 *
US-PATENT-CLASS-244-3.21	c 15	N76-14158 *	US-PATENT-CLASS-244-77G	c 32	N71-23971 *	US-PATENT-CLASS-250-199	c 74	N76-30053 *
US-PATENT-CLASS-244-3.21	c 15	N77-10113 *	US-PATENT-CLASS-244-78	c 08	N82-24205 *	US-PATENT-CLASS-250-199	c 74	N77-26942 *
US-PATENT-CLASS-244-3.21	c 35	N77-20399 *	US-PATENT-CLASS-244-78	c 05	N89-11738 *	US-PATENT-CLASS-250-199	c 32	N77-28346 *
US-PATENT-CLASS-244-3.22	c 31	N71-17629 *	US-PATENT-CLASS-244-79	c 04	N76-26175 *	US-PATENT-CLASS-250-199	c 60	N77-32731 *
US-PATENT-CLASS-244-3.22	c 28	N72-22769 *	US-PATENT-CLASS-244-82	c 05	N79-12061 *	US-PATENT-CLASS-250-199	c 74	N78-14889 *
US-PATENT-CLASS-244-3.22	c 20	N76-21275 *	US-PATENT-CLASS-244-83G	c 08	N79-23097 *	US-PATENT-CLASS-250-201	c 14	N70-40238 *
US-PATENT-CLASS-244-31	c 02	N71-11037 *	US-PATENT-CLASS-244-83R	c 05	N75-12930 *	US-PATENT-CLASS-250-201	c 35	N75-15014 *
US-PATENT-CLASS-244-31	c 31	N71-16081 *	US-PATENT-CLASS-244-83	c 21	N70-33279 *	US-PATENT-CLASS-250-201	c 74	N78-17866 *
US-PATENT-CLASS-244-31	c 34	N74-23039 *	US-PATENT-CLASS-244-83	c 15	N71-23255 *	US-PATENT-CLASS-250-203R	c 14	N72-27409 *
US-PATENT-CLASS-244-327	c 08	N74-30421 *	US-PATENT-CLASS-244-83	c 31	N71-33160 *	US-PATENT-CLASS-250-203R	c 14	N73-25462 *
US-PATENT-CLASS-244-32	c 02	N73-13008 *	US-PATENT-CLASS-244-83	c 08	N74-10942 *	US-PATENT-CLASS-250-203R	c 14	N73-28490 *
US-PATENT-CLASS-244-34A	c 05	N82-26277 *	US-PATENT-CLASS-244-87	c 08	N81-19130 *	US-PATENT-CLASS-250-203R	c 21	N73-30640 *
US-PATENT-CLASS-244-35-R	c 02	N89-14224 *	US-PATENT-CLASS-244-87	c 05	N91-31140 *	US-PATENT-CLASS-250-203R	c 19	N74-15089 *
US-PATENT-CLASS-244-35A	c 02	N84-11136 *	US-PATENT-CLASS-244-88	c 05	N91-31140 *	US-PATENT-CLASS-250-203R	c 89	N74-30886 *
US-PATENT-CLASS-244-35R	c 02	N76-22154 *	US-PATENT-CLASS-244-90R	c 08	N74-30421 *	US-PATENT-CLASS-250-203R	c 35	N77-20401 *
US-PATENT-CLASS-244-35R	c 02	N84-11136 *	US-PATENT-CLASS-244-90R	c 05	N79-12061 *	US-PATENT-CLASS-250-203R	c 74	N77-22951 *
US-PATENT-CLASS-244-35R	c 02	N84-28732 *	US-PATENT-CLASS-244-90R	c 08	N79-14108 *	US-PATENT-CLASS-250-203R	c 44	N81-24520 *
US-PATENT-CLASS-244-35R	c 02	N87-16793 *	US-PATENT-CLASS-244-90R	c 08	N85-19985 *	US-PATENT-CLASS-250-203R	c 32	N83-18975 *
US-PATENT-CLASS-244-35	c 01	N71-13410 *	US-PATENT-CLASS-244-90R	c 05	N90-23390 *	US-PATENT-CLASS-250-203R	c 47	N83-32232 *
US-PATENT-CLASS-244-40R	c 02	N76-22154 *	US-PATENT-CLASS-244-90	c 02	N71-27088 *	US-PATENT-CLASS-250-203R	c 44	N88-14492 *
US-PATENT-CLASS-244-42CG	c 33	N77-10429 *	US-PATENT-CLASS-244-91	c 08	N74-30421 *	US-PATENT-CLASS-250-203X	c 16	N72-13437 *
US-PATENT-CLASS-244-42DA	c 05	N75-25914 *	US-PATENT-CLASS-244-91	c 05	N84-12154 *	US-PATENT-CLASS-250-203	c 14	N69-27432 *
US-PATENT-CLASS-244-42	c 02	N70-42016 *	US-PATENT-CLASS-244-91	c 08	N88-23809 *	US-PATENT-CLASS-250-203	c 14	N69-27485 *
US-PATENT-CLASS-244-42	c 02	N71-26110 *	US-PATENT-CLASS-244-93	c 05	N82-26277 *	US-PATENT-CLASS-250-203	c 07	N69-39736 *
US-PATENT-CLASS-244-43	c 02	N70-33255 *	US-PATENT-CLASS-244-161	c 37	N87-22985 *	US-PATENT-CLASS-250-203	c 14	N70-34158 *
US-PATENT-CLASS-244-43	c 02	N71-11043 *	US-PATENT-CLASS-247-171	c 35	N75-23910 *	US-PATENT-CLASS-250-203	c 21	N70-35089 *
US-PATENT-CLASS-244-44	c 02	N71-11038 *	US-PATENT-CLASS-248-DIG-1	c 18	N89-28554 *	US-PATENT-CLASS-250-203	c 14	N70-40239 *
US-PATENT-CLASS-244-45A	c 05	N88-28914 *	US-PATENT-CLASS-248-119	c 11	N70-35383 *	US-PATENT-CLASS-250-203	c 21	N71-10678 *
US-PATENT-CLASS-244-45A	c 05	N78-32086 *	US-PATENT-CLASS-248-14	c 15	N72-17454 *	US-PATENT-CLASS-250-203	c 21	N71-10771 *
US-PATENT-CLASS-244-45A	c 05	N90-23390 *	US-PATENT-CLASS-248-16	c 18	N74-27397 *	US-PATENT-CLASS-250-203	c 21	N71-15642 *
US-PATENT-CLASS-244-45R	c 05	N84-12154 *	US-PATENT-CLASS-248-178	c 15	N70-41310 *	US-PATENT-CLASS-250-203	c 14	N71-19568 *

US-PATENT-CLASS-250-203	c 14	N71-23269 *	US-PATENT-CLASS-250-238	c 32	N77-28346 *	US-PATENT-CLASS-250-343	c 35	N84-34705 *
US-PATENT-CLASS-250-203	c 14	N71-23797 *	US-PATENT-CLASS-250-238	c 37	N87-23982 *	US-PATENT-CLASS-250-343	c 36	N85-21631 *
US-PATENT-CLASS-250-203	c 14	N72-22444 *	US-PATENT-CLASS-250-239	c 08	N73-30135 *	US-PATENT-CLASS-250-343	c 36	N87-28006 *
US-PATENT-CLASS-250-203	c 14	N73-30393 *	US-PATENT-CLASS-250-239	c 74	N78-33913 *	US-PATENT-CLASS-250-344	c 25	N76-22323 *
US-PATENT-CLASS-250-203	c 35	N75-23910 *	US-PATENT-CLASS-250-251	c 35	N76-15431 *	US-PATENT-CLASS-250-344	c 74	N78-17867 *
US-PATENT-CLASS-250-204	c 36	N74-21091 *	US-PATENT-CLASS-250-251	c 35	N84-33767 *	US-PATENT-CLASS-250-345	c 45	N75-27585 *
US-PATENT-CLASS-250-205	c 14	N72-27411 *	US-PATENT-CLASS-250-251	c 72	N87-21661 *	US-PATENT-CLASS-250-347	c 35	N77-10493 *
US-PATENT-CLASS-250-205	c 09	N73-14214 *	US-PATENT-CLASS-250-251	c 72	N88-24253 *	US-PATENT-CLASS-250-347	c 47	N77-10753 *
US-PATENT-CLASS-250-205	c 36	N74-13205 *	US-PATENT-CLASS-250-252.1	c 35	N84-33767 *	US-PATENT-CLASS-250-347	c 74	N80-33210 *
US-PATENT-CLASS-250-206	c 10	N71-20782 *	US-PATENT-CLASS-250-252	c 72	N89-29169 *	US-PATENT-CLASS-250-350	c 25	N81-25159 *
US-PATENT-CLASS-250-207	c 14	N72-17328 *	US-PATENT-CLASS-250-253	c 43	N79-31706 *	US-PATENT-CLASS-250-350	c 74	N83-19597 *
US-PATENT-CLASS-250-207	c 14	N73-32317 *	US-PATENT-CLASS-250-272	c 74	N78-15880 *	US-PATENT-CLASS-250-351	c 35	N75-30502 *
US-PATENT-CLASS-250-207	c 33	N74-27682 *	US-PATENT-CLASS-250-272	c 43	N79-31706 *	US-PATENT-CLASS-250-351	c 35	N78-13400 *
US-PATENT-CLASS-250-208	c 14	N72-20379 *	US-PATENT-CLASS-250-277CH	c 76	N78-24950 *	US-PATENT-CLASS-250-351	c 74	N83-19597 *
US-PATENT-CLASS-250-209	c 07	N69-39980 *	US-PATENT-CLASS-250-277CH	c 74	N80-21140 *	US-PATENT-CLASS-250-351	c 35	N84-34705 *
US-PATENT-CLASS-250-209	c 20	N71-16340 *	US-PATENT-CLASS-250-280	c 76	N78-24950 *	US-PATENT-CLASS-250-352	c 31	N79-17029 *
US-PATENT-CLASS-250-209	c 10	N72-17173 *	US-PATENT-CLASS-250-280	c 74	N80-21140 *	US-PATENT-CLASS-250-352	c 34	N79-20336 *
US-PATENT-CLASS-250-209	c 14	N72-25409 *	US-PATENT-CLASS-250-281	c 35	N74-34857 *	US-PATENT-CLASS-250-352	c 35	N80-26635 *
US-PATENT-CLASS-250-209	c 14	N73-16483 *	US-PATENT-CLASS-250-281	c 35	N76-16393 *	US-PATENT-CLASS-250-352	c 74	N80-33210 *
US-PATENT-CLASS-250-209	c 14	N73-26432 *	US-PATENT-CLASS-250-281	c 36	N77-26477 *	US-PATENT-CLASS-250-352	c 37	N87-23982 *
US-PATENT-CLASS-250-209	c 14	N73-28490 *	US-PATENT-CLASS-250-281	c 72	N80-14877 *	US-PATENT-CLASS-250-353	c 35	N76-29551 *
US-PATENT-CLASS-250-209	c 21	N73-30640 *	US-PATENT-CLASS-250-281	c 35	N91-14587 *	US-PATENT-CLASS-250-353	c 35	N80-26635 *
US-PATENT-CLASS-250-209	c 44	N81-24520 *	US-PATENT-CLASS-250-282	c 36	N77-26477 *	US-PATENT-CLASS-250-353	c 74	N80-33210 *
US-PATENT-CLASS-250-211J	c 09	N72-17152 *	US-PATENT-CLASS-250-282	c 72	N80-14877 *	US-PATENT-CLASS-250-356.1	c 47	N84-28292 *
US-PATENT-CLASS-250-211J	c 09	N73-14214 *	US-PATENT-CLASS-250-282	c 35	N83-27184 *	US-PATENT-CLASS-250-356.1	c 35	N91-31608 *
US-PATENT-CLASS-250-211J	c 35	N74-15090 *	US-PATENT-CLASS-250-282	c 35	N91-14587 *	US-PATENT-CLASS-250-358.1	c 72	N91-27936 *
US-PATENT-CLASS-250-211K	c 74	N77-22951 *	US-PATENT-CLASS-250-283	c 36	N77-26477 *	US-PATENT-CLASS-250-359	c 37	N75-26372 *
US-PATENT-CLASS-250-211K	c 44	N80-18552 *	US-PATENT-CLASS-250-286	c 35	N91-14587 *	US-PATENT-CLASS-250-360	c 35	N74-15091 *
US-PATENT-CLASS-250-211K	c 08	N86-27288 *	US-PATENT-CLASS-250-287	c 35	N76-15431 *	US-PATENT-CLASS-250-361	c 35	N74-15091 *
US-PATENT-CLASS-250-211R	c 36	N75-19652 *	US-PATENT-CLASS-250-287	c 35	N76-16393 *	US-PATENT-CLASS-250-363R	c 52	N77-14737 *
US-PATENT-CLASS-250-211R	c 35	N75-23910 *	US-PATENT-CLASS-250-287	c 35	N91-14587 *	US-PATENT-CLASS-250-363R	c 74	N79-20857 *
US-PATENT-CLASS-250-212	c 03	N71-23354 *	US-PATENT-CLASS-250-288	c 35	N76-16393 *	US-PATENT-CLASS-250-363R	c 74	N84-11920 *
US-PATENT-CLASS-250-212	c 03	N73-20040 *	US-PATENT-CLASS-250-288	c 35	N77-32456 *	US-PATENT-CLASS-250-363S	c 74	N84-11920 *
US-PATENT-CLASS-250-212	c 09	N73-32109 *	US-PATENT-CLASS-250-288	c 35	N83-27184 *	US-PATENT-CLASS-250-363S	c 35	N85-30281 *
US-PATENT-CLASS-250-213VT	c 74	N78-18905 *	US-PATENT-CLASS-250-288	c 72	N87-21660 *	US-PATENT-CLASS-250-367	c 35	N84-33765 *
US-PATENT-CLASS-250-214AL	c 74	N79-12890 *	US-PATENT-CLASS-250-288	c 35	N91-14587 *	US-PATENT-CLASS-250-368	c 74	N81-24900 *
US-PATENT-CLASS-250-214A	c 33	N77-14335 *	US-PATENT-CLASS-250-289	c 35	N77-14406 *	US-PATENT-CLASS-250-368	c 74	N84-11920 *
US-PATENT-CLASS-250-214R	c 14	N73-28490 *	US-PATENT-CLASS-250-290	c 35	N77-10492 *	US-PATENT-CLASS-250-369	c 35	N74-15091 *
US-PATENT-CLASS-250-214R	c 74	N79-12890 *	US-PATENT-CLASS-250-291	c 35	N77-10492 *	US-PATENT-CLASS-250-369	c 35	N82-32659 *
US-PATENT-CLASS-250-214	c 14	N73-25462 *	US-PATENT-CLASS-250-295	c 35	N74-34857 *	US-PATENT-CLASS-250-369	c 35	N85-30281 *
US-PATENT-CLASS-250-214	c 14	N73-25462 *	US-PATENT-CLASS-250-296	c 35	N84-28016 *	US-PATENT-CLASS-250-370.12	c 35	N91-14588 *
US-PATENT-CLASS-250-214	c 35	N74-15090 *	US-PATENT-CLASS-250-298	c 35	N77-14406 *	US-PATENT-CLASS-250-370.13	c 35	N91-14588 *
US-PATENT-CLASS-250-214	c 33	N82-28545 *	US-PATENT-CLASS-250-304	c 25	N74-26947 *	US-PATENT-CLASS-250-370	c 35	N74-18088 *
US-PATENT-CLASS-250-215	c 14	N73-16483 *	US-PATENT-CLASS-250-305	c 72	N84-28575 *	US-PATENT-CLASS-250-370	c 33	N75-31332 *
US-PATENT-CLASS-250-216	c 74	N79-34011 *	US-PATENT-CLASS-250-305	c 35	N91-14587 *	US-PATENT-CLASS-250-370	c 35	N82-31659 *
US-PATENT-CLASS-250-216	c 74	N82-24072 *	US-PATENT-CLASS-250-306	c 72	N91-27936 *	US-PATENT-CLASS-250-370	c 44	N82-32841 *
US-PATENT-CLASS-250-216	c 74	N89-14077 *	US-PATENT-CLASS-250-307	c 25	N80-20334 *	US-PATENT-CLASS-250-370	c 76	N87-13313 *
US-PATENT-CLASS-250-217F	c 14	N73-16484 *	US-PATENT-CLASS-250-307	c 72	N91-27936 *	US-PATENT-CLASS-250-371	c 35	N74-18088 *
US-PATENT-CLASS-250-217R	c 14	N73-19419 *	US-PATENT-CLASS-250-308	c 25	N80-20334 *	US-PATENT-CLASS-250-372	c 19	N74-29410 *
US-PATENT-CLASS-250-217SS	c 09	N73-14214 *	US-PATENT-CLASS-250-310	c 35	N78-10429 *	US-PATENT-CLASS-250-372	c 24	N76-24363 *
US-PATENT-CLASS-250-217SS	c 36	N74-15145 *	US-PATENT-CLASS-250-310	c 33	N80-14332 *	US-PATENT-CLASS-250-372	c 33	N76-27473 *
US-PATENT-CLASS-250-217	c 14	N69-39986 *	US-PATENT-CLASS-250-310	c 35	N90-20351 *	US-PATENT-CLASS-250-372	c 35	N83-21311 *
US-PATENT-CLASS-250-217	c 14	N73-16483 *	US-PATENT-CLASS-250-311	c 33	N83-18996 *	US-PATENT-CLASS-250-372	c 35	N84-33767 *
US-PATENT-CLASS-250-217	c 36	N74-13205 *	US-PATENT-CLASS-250-320	c 74	N78-15880 *	US-PATENT-CLASS-250-373	c 25	N74-26947 *
US-PATENT-CLASS-250-218	c 14	N71-22996 *	US-PATENT-CLASS-250-322	c 35	N78-15461 *	US-PATENT-CLASS-250-373	c 35	N75-30502 *
US-PATENT-CLASS-250-218	c 14	N71-28994 *	US-PATENT-CLASS-250-327.2	c 74	N91-14835 *	US-PATENT-CLASS-250-373	c 45	N76-17656 *
US-PATENT-CLASS-250-218	c 74	N78-33913 *	US-PATENT-CLASS-250-330	c 44	N82-32841 *	US-PATENT-CLASS-250-373	c 36	N87-28006 *
US-PATENT-CLASS-250-219DF	c 91	N74-13130 *	US-PATENT-CLASS-250-332	c 35	N75-19613 *	US-PATENT-CLASS-250-374	c 35	N74-26949 *
US-PATENT-CLASS-250-219TH	c 26	N73-26751 *	US-PATENT-CLASS-250-332	c 31	N78-25256 *	US-PATENT-CLASS-250-374	c 35	N85-34374 *
US-PATENT-CLASS-250-219	c 14	N71-28993 *	US-PATENT-CLASS-250-332	c 35	N82-31659 *	US-PATENT-CLASS-250-379	c 35	N85-34374 *
US-PATENT-CLASS-250-221	c 33	N82-28545 *	US-PATENT-CLASS-250-332	c 74	N83-19597 *	US-PATENT-CLASS-250-385	c 35	N74-26949 *
US-PATENT-CLASS-250-221	c 74	N85-22139 *	US-PATENT-CLASS-250-332	c 74	N84-28590 *	US-PATENT-CLASS-250-385	c 35	N75-27331 *
US-PATENT-CLASS-250-225	c 14	N71-24864 *	US-PATENT-CLASS-250-335	c 34	N76-18374 *	US-PATENT-CLASS-250-385	c 35	N76-15433 *
US-PATENT-CLASS-250-225	c 14	N72-27409 *	US-PATENT-CLASS-250-336.1	c 72	N86-33127 *	US-PATENT-CLASS-250-385	c 35	N76-16393 *
US-PATENT-CLASS-250-225	c 32	N86-20647 *	US-PATENT-CLASS-250-336	c 14	N73-28488 *	US-PATENT-CLASS-250-385	c 35	N82-24471 *
US-PATENT-CLASS-250-226	c 14	N72-25409 *	US-PATENT-CLASS-250-336	c 35	N76-15433 *	US-PATENT-CLASS-250-385	c 35	N84-33765 *
US-PATENT-CLASS-250-226	c 43	N79-17288 *	US-PATENT-CLASS-250-336	c 33	N76-27473 *	US-PATENT-CLASS-250-386	c 35	N82-24471 *
US-PATENT-CLASS-250-226	c 74	N82-30071 *	US-PATENT-CLASS-250-336	c 35	N78-13400 *	US-PATENT-CLASS-250-388	c 33	N83-24471 *
US-PATENT-CLASS-250-227	c 14	N71-22991 *	US-PATENT-CLASS-250-338.1	c 35	N91-14588 *	US-PATENT-CLASS-250-389	c 35	N82-24673 *
US-PATENT-CLASS-250-227	c 14	N71-23240 *	US-PATENT-CLASS-250-338.2	c 35	N91-14588 *	US-PATENT-CLASS-250-394	c 14	N73-30392 *
US-PATENT-CLASS-250-227	c 60	N77-14751 *	US-PATENT-CLASS-250-338	c 35	N74-18088 *	US-PATENT-CLASS-250-394	c 19	N74-29410 *
US-PATENT-CLASS-250-227	c 74	N78-33913 *	US-PATENT-CLASS-250-338	c 35	N77-10493 *	US-PATENT-CLASS-250-396-ML	c 35	N90-20351 *
US-PATENT-CLASS-250-227	c 74	N83-19597 *	US-PATENT-CLASS-250-338	c 47	N77-10753 *	US-PATENT-CLASS-250-396-R	c 72	N87-21661 *
US-PATENT-CLASS-250-227	c 74	N84-11921 *	US-PATENT-CLASS-250-338	c 35	N80-26635 *	US-PATENT-CLASS-250-396-R	c 35	N90-20351 *
US-PATENT-CLASS-250-227	c 74	N91-21871 *	US-PATENT-CLASS-250-338	c 35	N83-21311 *	US-PATENT-CLASS-250-396	c 35	N77-14408 *
US-PATENT-CLASS-250-228	c 74	N86-26190 *	US-PATENT-CLASS-250-338	c 74	N84-28590 *	US-PATENT-CLASS-250-397	c 72	N89-29169 *
US-PATENT-CLASS-250-229	c 08	N73-30135 *	US-PATENT-CLASS-250-338	c 72	N86-33127 *	US-PATENT-CLASS-250-398	c 35	N78-10429 *
US-PATENT-CLASS-250-229	c 74	N90-22383 *	US-PATENT-CLASS-250-338	c 36	N87-13313 *	US-PATENT-CLASS-250-400	c 25	N76-29379 *
US-PATENT-CLASS-250-231-GY	c 74	N87-23259 *	US-PATENT-CLASS-250-339	c 35	N77-10493 *	US-PATENT-CLASS-250-400	c 25	N78-27226 *
US-PATENT-CLASS-250-231R	c 74	N82-30071 *	US-PATENT-CLASS-250-339	c 47	N77-10753 *	US-PATENT-CLASS-250-41.9D	c 14	N72-29464 *
US-PATENT-CLASS-250-231SE	c 74	N74-21304 *	US-PATENT-CLASS-250-339	c 35	N84-33766 *	US-PATENT-CLASS-250-41.9G	c 14	N73-12444 *
US-PATENT-CLASS-250-231SE	c 44	N80-18552 *	US-PATENT-CLASS-250-339	c 36	N85-21631 *	US-PATENT-CLASS-250-41.9S	c 14	N73-12444 *
US-PATENT-CLASS-250-231	c 14	N73-20475 *	US-PATENT-CLASS-250-339	c 36	N85-29264 *	US-PATENT-CLASS-250-41.95	c 14	N71-28992 *
US-PATENT-CLASS-250-232	c 23	N71-21821 *	US-PATENT-CLASS-250-339	c 36	N87-28006 *	US-PATENT-CLASS-250-41.9	c 06	N71-13461 *
US-PATENT-CLASS-250-233	c 23	N71-16100 *	US-PATENT-CLASS-250-340	c 35	N76-29551 *	US-PATENT-CLASS-250-41.9	c 24	N71-16095 *
US-PATENT-CLASS-250-234	c 03	N73-20040 *	US-PATENT-CLASS-250-340	c 74	N83-19597 *	US-PATENT-CLASS-250-41.9	c 14	N71-23041 *
US-PATENT-CLASS-250-235	c 14	N72-11364 *	US-PATENT-CLASS-250-340	c 72	N86-33127 *	US-PATENT-CLASS-250-41.9	c 14	N71-28863 *
US-PATENT-CLASS-250-235	c 43	N82-13465 *	US-PATENT-CLASS-250-341	c 32	N87-21206 *	US-PATENT-CLASS-250-41.9	c 14	N72-17328 *
US-PATENT-CLASS-250-235	c 74	N82-24072 *	US-PATENT-CLASS-250-343	c 35	N74-11284 *	US-PATENT-CLASS-250-41.9	c 14	N73-32325 *
US-PATENT-CLASS-250-236	c 21	N73-30640 *	US-PATENT-CLASS-250-343	c 25	N74-26947 *	US-PATENT-CLASS-250-416TV	c 35	N78-15461 *
US-PATENT-CLASS-250-236	c 43	N82-13465 *	US-PATENT-CLASS-250-343	c 45	N75-27585 *	US-PATENT-CLASS-250-423-P	c 72	N87-21661 *
US-PATENT-CLASS-250-237G	c 74	N79-20856 *	US-PATENT-CLASS-250-343	c 74	N76-20958 *	US-PATENT-CLASS-250-423-P	c 25	N88-24732 *
US-PATENT-CLASS-250-237R	c 08	N73-30135 *	US-PATENT-CLASS-250-343	c 25	N76-22323 *	US-PATENT-CLASS-250-423-R	c 33	N87-21234 *
US-PATENT-CLASS-250-237R	c 19	N74-15089 *	US-PATENT-CLASS-250-343	c 35	N77-14411 *	US-PATENT-CLASS-250-423-R	c 72	N87-21660 *
US-PATENT-CLASS-250-237	c 14	N69-24331 *	US-PATENT-CLASS-250-343	c 35	N78-13400 *	US-PATENT-CLASS-250-423-R	c 72	N88-24253 *
US-PATENT-CLASS-250-238	c 33	N75-31332 *	US-PATENT-CLASS-250-343	c 25	N81-14015 *	US-PATENT-CLASS-250-423P	c 36	N77-26477 *

REPORT NUMBER INDEX

US-PATENT-CLASS-250-423P c 25 N78-25148 *
 US-PATENT-CLASS-250-423P c 72 N80-14877 *
 US-PATENT-CLASS-250-423 c 35 N76-15431 *
 US-PATENT-CLASS-250-423 c 35 N76-16393 *
 US-PATENT-CLASS-250-423 c 35 N83-27184 *
 US-PATENT-CLASS-250-423 c 35 N91-14587 *
 US-PATENT-CLASS-250-424 c 72 N87-21660 *
 US-PATENT-CLASS-250-426 c 33 N85-21491 *
 US-PATENT-CLASS-250-427 c 72 N80-27163 *
 US-PATENT-CLASS-250-427 c 72 N87-21660 *
 US-PATENT-CLASS-250-427 c 72 N88-24253 *
 US-PATENT-CLASS-250-427 c 25 N88-24732 *
 US-PATENT-CLASS-250-429 c 25 N76-29379 *
 US-PATENT-CLASS-250-429 c 25 N78-27226 *
 US-PATENT-CLASS-250-43.5FC c 14 N72-11365 *
 US-PATENT-CLASS-250-43.5R c 14 N71-27090 *
 US-PATENT-CLASS-250-43.5R c 14 N72-21408 *
 US-PATENT-CLASS-250-43.5R c 06 N72-25146 *
 US-PATENT-CLASS-250-43.5R c 06 N72-31141 *
 US-PATENT-CLASS-250-43.5 c 27 N71-16348 *
 US-PATENT-CLASS-250-43.5 c 15 N71-24896 *
 US-PATENT-CLASS-250-43.5 c 14 N71-25901 *
 US-PATENT-CLASS-250-43.5R c 25 N76-22323 *
 US-PATENT-CLASS-250-432 c 45 N75-27585 *
 US-PATENT-CLASS-250-444 c 52 N77-14737 *
 US-PATENT-CLASS-250-457 c 35 N80-28686 *
 US-PATENT-CLASS-250-459.1 c 35 N90-22770 *
 US-PATENT-CLASS-250-460 c 37 N75-26372 *
 US-PATENT-CLASS-250-461.1 c 35 N90-22770 *
 US-PATENT-CLASS-250-474.1 c 35 N83-21311 *
 US-PATENT-CLASS-250-475 c 35 N79-10389 *
 US-PATENT-CLASS-250-483.1 c 35 N84-33765 *
 US-PATENT-CLASS-250-483 c 74 N79-20857 *
 US-PATENT-CLASS-250-483 c 74 N81-24900 *
 US-PATENT-CLASS-250-484.1 c 74 N91-14835 *
 US-PATENT-CLASS-250-489 c 35 N76-15433 *
 US-PATENT-CLASS-250-49.5B c 24 N72-11595 *
 US-PATENT-CLASS-250-49.5TE c 24 N72-11595 *
 US-PATENT-CLASS-250-49.5 c 14 N69-39982 * #
 US-PATENT-CLASS-250-49.5 c 14 N71-28863 *
 US-PATENT-CLASS-250-49.5 c 14 N72-17328 *
 US-PATENT-CLASS-250-491 c 35 N80-28686 *
 US-PATENT-CLASS-250-492A c 33 N80-14332 *
 US-PATENT-CLASS-250-492B c 25 N78-27226 *
 US-PATENT-CLASS-250-492R c 25 N76-29379 *
 US-PATENT-CLASS-250-492R c 28 N78-24365 *
 US-PATENT-CLASS-250-492 c 35 N74-15091 *
 US-PATENT-CLASS-250-492 c 37 N75-26372 *
 US-PATENT-CLASS-250-493.1 c 35 N91-14588 *
 US-PATENT-CLASS-250-493 c 73 N75-30876 *
 US-PATENT-CLASS-250-495 c 74 N75-12732 *
 US-PATENT-CLASS-250-496 c 73 N75-30876 *
 US-PATENT-CLASS-250-498 c 52 N77-14737 *
 US-PATENT-CLASS-250-499 c 73 N74-26767 *
 US-PATENT-CLASS-250-499 c 72 N76-15860 *
 US-PATENT-CLASS-250-499 c 37 N78-13436 *
 US-PATENT-CLASS-250-500 c 72 N76-15860 *
 US-PATENT-CLASS-250-505 c 74 N74-27866 *
 US-PATENT-CLASS-250-505 c 35 N75-19616 *
 US-PATENT-CLASS-250-508 c 35 N75-19616 *
 US-PATENT-CLASS-250-51.5 c 23 N73-13662 *
 US-PATENT-CLASS-250-51.5 c 14 N73-28491 *
 US-PATENT-CLASS-250-510 c 35 N75-19616 *
 US-PATENT-CLASS-250-511 c 74 N74-27866 *
 US-PATENT-CLASS-250-513 c 35 N80-28686 *
 US-PATENT-CLASS-250-518 c 14 N73-30392 *
 US-PATENT-CLASS-250-51 c 24 N72-11595 *
 US-PATENT-CLASS-250-527 c 37 N76-18458 *
 US-PATENT-CLASS-250-527 c 25 N77-32255 *
 US-PATENT-CLASS-250-527 c 44 N77-32580 *
 US-PATENT-CLASS-250-527 c 44 N79-11470 *
 US-PATENT-CLASS-250-527 c 44 N82-16475 *
 US-PATENT-CLASS-250-528 c 25 N78-25148 *
 US-PATENT-CLASS-250-52 c 15 N71-15606 *
 US-PATENT-CLASS-250-52 c 11 N71-23042 *
 US-PATENT-CLASS-250-52 c 24 N72-11595 *
 US-PATENT-CLASS-250-52 c 23 N73-13662 *
 US-PATENT-CLASS-250-531 c 25 N78-25148 *
 US-PATENT-CLASS-250-531 c 33 N79-15245 *
 US-PATENT-CLASS-250-540 c 33 N79-15245 *
 US-PATENT-CLASS-250-541 c 33 N79-15245 *
 US-PATENT-CLASS-250-551 c 74 N79-34011 *
 US-PATENT-CLASS-250-563 c 38 N78-17396 *
 US-PATENT-CLASS-250-566 c 74 N75-25706 *
 US-PATENT-CLASS-250-571 c 36 N78-14380 *
 US-PATENT-CLASS-250-572 c 38 N78-17396 *
 US-PATENT-CLASS-250-572 c 38 N78-17396 *
 US-PATENT-CLASS-250-573 c 74 N76-20958 *
 US-PATENT-CLASS-250-573 c 34 N83-31993 *
 US-PATENT-CLASS-250-574 c 45 N76-21742 *
 US-PATENT-CLASS-250-574 c 36 N77-25501 *
 US-PATENT-CLASS-250-576 c 35 N74-27860 *
 US-PATENT-CLASS-250-578 c 36 N75-19652 *
 US-PATENT-CLASS-250-65F c 15 N72-25452 *
 US-PATENT-CLASS-250-65R c 14 N73-30389 *
 US-PATENT-CLASS-250-71.5R c 14 N72-29464 *

US-PATENT-CLASS-250-71.5 c 14 N72-17328 *
 US-PATENT-CLASS-250-71R c 06 N73-16106 *
 US-PATENT-CLASS-250-71 c 14 N70-41676 *
 US-PATENT-CLASS-250-83.3H c 14 N72-21408 *
 US-PATENT-CLASS-250-83.3H c 14 N72-24477 *
 US-PATENT-CLASS-250-83.3H c 14 N73-12445 *
 US-PATENT-CLASS-250-83.3H c 14 N73-20475 *
 US-PATENT-CLASS-250-83.3H c 14 N73-25462 *
 US-PATENT-CLASS-250-83.3R c 14 N73-12445 *
 US-PATENT-CLASS-250-83.3R c 14 N73-20477 *
 US-PATENT-CLASS-250-83.3R c 14 N73-32317 *
 US-PATENT-CLASS-250-83.3UV c 10 N72-17173 *
 US-PATENT-CLASS-250-83.3UV c 14 N72-25409 *
 US-PATENT-CLASS-250-83.3UV c 06 N73-16106 *
 US-PATENT-CLASS-250-83.3 c 21 N70-33181 *
 US-PATENT-CLASS-250-83.3 c 21 N70-34297 *
 US-PATENT-CLASS-250-83.3 c 14 N71-15599 *
 US-PATENT-CLASS-250-83.3 c 14 N71-18699 *
 US-PATENT-CLASS-250-83.3 c 14 N71-21088 *
 US-PATENT-CLASS-250-83.3 c 09 N71-22985 *
 US-PATENT-CLASS-250-83.3 c 14 N71-25901 *
 US-PATENT-CLASS-250-83.3 c 14 N71-26475 *
 US-PATENT-CLASS-250-83.3 c 14 N71-27323 *
 US-PATENT-CLASS-250-83.3 c 14 N72-17328 *
 US-PATENT-CLASS-250-83.3 c 35 N75-27329 *
 US-PATENT-CLASS-250-83.6R c 14 N71-27090 *
 US-PATENT-CLASS-250-83.6R c 14 N72-20381 *
 US-PATENT-CLASS-250-83.6R c 25 N72-33696 *
 US-PATENT-CLASS-250-83.6R c 74 N81-19898 *
 US-PATENT-CLASS-250-83.6 c 10 N70-41991 *
 US-PATENT-CLASS-250-83CD c 91 N74-13130 *
 US-PATENT-CLASS-250-83R c 14 N73-12445 *
 US-PATENT-CLASS-250-83R c 14 N73-20477 *
 US-PATENT-CLASS-250-83 c 14 N69-27484 * #
 US-PATENT-CLASS-250-83 c 14 N69-39937 * #
 US-PATENT-CLASS-250-83 c 09 N71-18830 *
 US-PATENT-CLASS-250-83 c 05 N71-19440 *
 US-PATENT-CLASS-250-83 c 14 N71-20430 *
 US-PATENT-CLASS-250-83 c 14 N71-23401 *
 US-PATENT-CLASS-250-83 c 09 N71-27232 *
 US-PATENT-CLASS-250-84 c 14 N71-24809 *
 US-PATENT-CLASS-251-118 c 15 N71-18580 *
 US-PATENT-CLASS-251-11 c 15 N70-35407 *
 US-PATENT-CLASS-251-120 c 37 N74-21065 *
 US-PATENT-CLASS-251-121 c 15 N71-18580 *
 US-PATENT-CLASS-251-122 c 15 N73-13462 *
 US-PATENT-CLASS-251-122 c 37 N74-21065 *
 US-PATENT-CLASS-251-127 c 12 N71-18615 *
 US-PATENT-CLASS-251-127 c 44 N84-14583 *
 US-PATENT-CLASS-251-129.15 c 37 N87-25573 *
 US-PATENT-CLASS-251-129.15 c 34 N91-27504 *
 US-PATENT-CLASS-251-129 c 15 N72-20442 *
 US-PATENT-CLASS-251-138 c 37 N80-23654 *
 US-PATENT-CLASS-251-148 c 15 N71-23024 *
 US-PATENT-CLASS-251-148 c 34 N91-27504 *
 US-PATENT-CLASS-251-149.6 c 37 N76-14463 *
 US-PATENT-CLASS-251-149.9 c 37 N79-11402 *
 US-PATENT-CLASS-251-160 c 37 N91-14609 *
 US-PATENT-CLASS-251-163 c 37 N91-14609 *
 US-PATENT-CLASS-251-165 c 37 N87-21332 *
 US-PATENT-CLASS-251-172 c 15 N71-21234 *
 US-PATENT-CLASS-251-172 c 37 N79-33469 *
 US-PATENT-CLASS-251-173 c 15 N70-33376 *
 US-PATENT-CLASS-251-175 c 37 N87-25573 *
 US-PATENT-CLASS-251-205 c 34 N91-27504 *
 US-PATENT-CLASS-251-210 c 37 N74-21065 *
 US-PATENT-CLASS-251-212 c 34 N91-14563 *
 US-PATENT-CLASS-251-216 c 37 N81-17433 *
 US-PATENT-CLASS-251-265 c 37 N85-20338 *
 US-PATENT-CLASS-251-267 c 37 N85-20338 *
 US-PATENT-CLASS-251-284 c 37 N85-20338 *
 US-PATENT-CLASS-251-297 c 37 N85-20338 *
 US-PATENT-CLASS-251-31 c 15 N71-19485 *
 US-PATENT-CLASS-251-325 c 37 N85-29284 *
 US-PATENT-CLASS-251-326 c 34 N91-27504 *
 US-PATENT-CLASS-251-331 c 15 N72-31483 *
 US-PATENT-CLASS-251-333 c 15 N70-34859 *
 US-PATENT-CLASS-251-333 c 12 N71-18615 *
 US-PATENT-CLASS-251-333 c 15 N72-20442 *
 US-PATENT-CLASS-251-333 c 37 N75-25185 *
 US-PATENT-CLASS-251-339 c 37 N81-17433 *
 US-PATENT-CLASS-251-342 c 12 N71-18615 *
 US-PATENT-CLASS-251-349 c 37 N85-29284 *
 US-PATENT-CLASS-251-353 c 37 N85-29284 *
 US-PATENT-CLASS-251-358 c 15 N71-17648 *
 US-PATENT-CLASS-251-360 c 15 N72-25451 *
 US-PATENT-CLASS-251-363 c 34 N91-27504 *
 US-PATENT-CLASS-251-61.1 c 12 N71-18615 *
 US-PATENT-CLASS-251-61 c 15 N71-10778 *
 US-PATENT-CLASS-251-7 c 37 N79-28550 *
 US-PATENT-CLASS-251-86 c 15 N72-31483 *
 US-PATENT-CLASS-251-86 c 37 N80-23654 *
 US-PATENT-CLASS-252-12.2 c 24 N79-17916 *
 US-PATENT-CLASS-252-12 c 15 N71-23810 *
 US-PATENT-CLASS-252-12 c 24 N76-22309 *
 US-PATENT-CLASS-252-182.1 c 33 N84-14422 *

US-PATENT-CLASS-260-2.5AK

US-PATENT-CLASS-252-26 c 15 N71-21403 *
 US-PATENT-CLASS-252-26 c 15 N71-24046 *
 US-PATENT-CLASS-252-2 c 25 N83-36118 *
 US-PATENT-CLASS-252-300 c 14 N72-22443 *
 US-PATENT-CLASS-252-300 c 24 N76-24363 *
 US-PATENT-CLASS-252-301.1R c 35 N79-10389 *
 US-PATENT-CLASS-252-301.16 c 35 N79-10389 *
 US-PATENT-CLASS-252-301.2 c 18 N71-27170 *
 US-PATENT-CLASS-252-301.4 c 06 N73-30097 *
 US-PATENT-CLASS-252-305 c 06 N73-30097 *
 US-PATENT-CLASS-252-359A c 37 N77-13418 *
 US-PATENT-CLASS-252-361 c 71 N83-35781 *
 US-PATENT-CLASS-252-364 c 28 N81-15119 *
 US-PATENT-CLASS-252-373 c 44 N76-29704 *
 US-PATENT-CLASS-252-373 c 44 N77-10636 *
 US-PATENT-CLASS-252-408 c 14 N73-14428 *
 US-PATENT-CLASS-252-422 c 45 N82-11634 *
 US-PATENT-CLASS-252-431N c 06 N73-32029 *
 US-PATENT-CLASS-252-431R c 06 N73-32029 *
 US-PATENT-CLASS-252-472 c 25 N78-10225 *
 US-PATENT-CLASS-252-500 c 27 N92-16121 *
 US-PATENT-CLASS-252-502 c 27 N92-10090 *
 US-PATENT-CLASS-252-502 c 24 N92-16025 *
 US-PATENT-CLASS-252-510 c 24 N91-15320 *
 US-PATENT-CLASS-252-514 c 05 N72-25120 *
 US-PATENT-CLASS-252-514 c 44 N79-31752 *
 US-PATENT-CLASS-252-514 c 25 N82-26396 *
 US-PATENT-CLASS-252-518 c 24 N79-14156 *
 US-PATENT-CLASS-252-518 c 27 N92-16121 *
 US-PATENT-CLASS-252-549 c 23 N75-14834 *
 US-PATENT-CLASS-252-58 c 18 N70-39897 *
 US-PATENT-CLASS-252-5 c 25 N83-33977 *
 US-PATENT-CLASS-252-5 c 25 N83-36118 *
 US-PATENT-CLASS-252-62.2 c 33 N91-14536 *
 US-PATENT-CLASS-252-62.3E c 44 N80-24741 *
 US-PATENT-CLASS-252-62.3E c 44 N81-19558 *
 US-PATENT-CLASS-252-62.3GA c 25 N75-26043 *
 US-PATENT-CLASS-252-62.3 c 26 N71-23292 *
 US-PATENT-CLASS-252-62.3 c 76 N76-25049 *
 US-PATENT-CLASS-252-62 c 27 N74-27037 *
 US-PATENT-CLASS-252-70 c 23 N75-14834 *
 US-PATENT-CLASS-252-8.1 c 18 N73-26572 *
 US-PATENT-CLASS-252-8.1 c 27 N74-27037 *
 US-PATENT-CLASS-252-8.1 c 24 N78-14096 *
 US-PATENT-CLASS-253-317 c 44 N77-22606 *
 US-PATENT-CLASS-253-39.15 c 15 N70-33226 *
 US-PATENT-CLASS-253-39.15 c 15 N70-33264 *
 US-PATENT-CLASS-253-39.15 c 28 N70-33372 *
 US-PATENT-CLASS-253-39.1 c 33 N71-29152 *
 US-PATENT-CLASS-253-66 c 15 N70-36412 *
 US-PATENT-CLASS-253-66 c 28 N70-39895 *
 US-PATENT-CLASS-253-77 c 28 N71-28928 *
 US-PATENT-CLASS-253-77 c 28 N71-29154 *
 US-PATENT-CLASS-253 c 25 N79-28253 *
 US-PATENT-CLASS-254-101 c 37 N91-21543 *
 US-PATENT-CLASS-254-124 c 20 N76-22296 *
 US-PATENT-CLASS-254-131 c 60 N82-24839 *
 US-PATENT-CLASS-254-150 c 15 N71-24599 *
 US-PATENT-CLASS-254-156 c 15 N73-25512 *
 US-PATENT-CLASS-254-158 c 54 N77-21844 *
 US-PATENT-CLASS-254-173 c 15 N71-24599 *
 US-PATENT-CLASS-254-186 c 15 N71-24599 *
 US-PATENT-CLASS-254-190 c 15 N72-25453 *
 US-PATENT-CLASS-254-29A c 15 N73-30457 *
 US-PATENT-CLASS-254-93-H c 35 N88-24927 *
 US-PATENT-CLASS-254-93-R c 35 N88-24927 *
 US-PATENT-CLASS-254-93R c 35 N74-13129 *
 US-PATENT-CLASS-254-93R c 20 N76-22296 *
 US-PATENT-CLASS-256-13.1 c 37 N79-10420 *
 US-PATENT-CLASS-256-1 c 37 N79-10420 *
 US-PATENT-CLASS-256-308.2 c 27 N86-20561 *
 US-PATENT-CLASS-259-DIG.18 c 35 N74-15093 *
 US-PATENT-CLASS-259-4AC c 37 N76-19436 *
 US-PATENT-CLASS-259-4 c 15 N73-19458 *
 US-PATENT-CLASS-259-60 c 35 N74-15093 *
 US-PATENT-CLASS-259-71 c 15 N71-21177 *
 US-PATENT-CLASS-259-72 c 37 N74-18123 *
 US-PATENT-CLASS-259-98 c 35 N74-15126 *
 US-PATENT-CLASS-259/4R c 34 N77-24423 *
 US-PATENT-CLASS-260.46.5E c 27 N74-21156 *
 US-PATENT-CLASS-260-DIG.15 c 27 N78-14164 *
 US-PATENT-CLASS-260-DIG.24 c 27 N74-27037 *
 US-PATENT-CLASS-260-DIG.24 c 27 N76-24405 *
 US-PATENT-CLASS-260-DIG.29 c 27 N80-24438 *
 US-PATENT-CLASS-260-17.2 c 24 N80-26388 *
 US-PATENT-CLASS-260-17.2 c 24 N81-13999 *
 US-PATENT-CLASS-260-17.4UC c 23 N81-29160 *
 US-PATENT-CLASS-260-17A c 27 N81-14076 *
 US-PATENT-CLASS-260-18S c 06 N72-25151 *
 US-PATENT-CLASS-260-2.1E c 18 N72-22567 *
 US-PATENT-CLASS-260-2.1E c 27 N81-14076 *
 US-PATENT-CLASS-260-2.1E c 25 N81-19244 *
 US-PATENT-CLASS-260-2.1 c 25 N81-17187 *
 US-PATENT-CLASS-260-2.2R c 25 N81-17187 *
 US-PATENT-CLASS-260-2.2R c 25 N81-19244 *
 US-PATENT-CLASS-260-2.5AK c 27 N76-15310 *

US-PATENT-CLASS-260-2.5AK

REPORT NUMBER INDEX

US-PATENT-CLASS-260-2.5AK	c 24	N78-24290 *	US-PATENT-CLASS-260-45.7	c 27	N76-24405 *	US-PATENT-CLASS-261-123	c 34	N77-24423 *
US-PATENT-CLASS-260-2.5AM	c 27	N74-12812 *	US-PATENT-CLASS-260-45.85N	c 24	N78-27180 *	US-PATENT-CLASS-261-145	c 28	N72-22772 *
US-PATENT-CLASS-260-2.5AM	c 27	N77-31308 *	US-PATENT-CLASS-260-45.9R	c 24	N78-27180 *	US-PATENT-CLASS-261-28	c 07	N81-29129 *
US-PATENT-CLASS-260-2.5AP	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5E	c 06	N72-25151 *	US-PATENT-CLASS-261-78A	c 35	N86-29174 *
US-PATENT-CLASS-260-2.5AY	c 27	N77-31308 *	US-PATENT-CLASS-260-46.5G	c 06	N72-25151 *	US-PATENT-CLASS-261-79A	c 54	N81-24724 *
US-PATENT-CLASS-260-2.5A	c 27	N77-31308 *	US-PATENT-CLASS-260-46.5P	c 06	N72-25151 *	US-PATENT-CLASS-261-83	c 51	N91-30667 *
US-PATENT-CLASS-260-2.58E	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5R	c 06	N73-26100 *	US-PATENT-CLASS-263-48	c 15	N69-27483 *
US-PATENT-CLASS-260-2.5B	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5	c 06	N71-11237 *	US-PATENT-CLASS-264-DIG.36	c 18	N73-14584 *
US-PATENT-CLASS-260-2.5EP	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5E	c 06	N71-11240 *	US-PATENT-CLASS-264-DIG.44	c 15	N72-16329 *
US-PATENT-CLASS-260-2.5FP	c 06	N72-25147 *	US-PATENT-CLASS-260-46.55R	c 27	N81-24256 *	US-PATENT-CLASS-264-DIG.64	c 27	N88-23894 *
US-PATENT-CLASS-260-2.5FP	c 27	N74-27037 *	US-PATENT-CLASS-260-46.55R	c 27	N84-22744 *	US-PATENT-CLASS-264-DIG.65	c 27	N85-20124 *
US-PATENT-CLASS-260-2.5FP	c 24	N78-24290 *	US-PATENT-CLASS-260-46.55	c 27	N84-22744 *	US-PATENT-CLASS-264-DIG.59	c 27	N89-29539 *
US-PATENT-CLASS-260-2.5F	c 18	N73-13562 *	US-PATENT-CLASS-260-47CP	c 06	N73-27980 *	US-PATENT-CLASS-264-022	c 27	N90-21198 *
US-PATENT-CLASS-260-2.5L	c 27	N74-12814 *	US-PATENT-CLASS-260-47CP	c 23	N76-15268 *	US-PATENT-CLASS-264-102	c 15	N71-10672 *
US-PATENT-CLASS-260-2.5N	c 24	N78-15180 *	US-PATENT-CLASS-260-47CP	c 27	N78-31232 *	US-PATENT-CLASS-264-102	c 15	N73-12489 *
US-PATENT-CLASS-260-2.5N	c 27	N78-31232 *	US-PATENT-CLASS-260-47CP	c 27	N78-32261 *	US-PATENT-CLASS-264-102	c 31	N74-14133 *
US-PATENT-CLASS-260-2.5N	c 27	N74-27037 *	US-PATENT-CLASS-260-47UP	c 06	N73-32029 *	US-PATENT-CLASS-264-102	c 31	N74-18124 *
US-PATENT-CLASS-260-2.5R	c 24	N78-15180 *	US-PATENT-CLASS-260-47	c 06	N71-28620 *	US-PATENT-CLASS-264-102	c 37	N76-24575 *
US-PATENT-CLASS-260-2.5	c 06	N71-11242 *	US-PATENT-CLASS-260-47	c 06	N71-28807 *	US-PATENT-CLASS-264-102	c 15	N79-26100 *
US-PATENT-CLASS-260-2.5	c 06	N71-24739 *	US-PATENT-CLASS-260-485F	c 06	N73-30098 *	US-PATENT-CLASS-264-104	c 05	N72-25120 *
US-PATENT-CLASS-260-2.5	c 06	N71-25929 *	US-PATENT-CLASS-260-49	c 27	N78-32261 *	US-PATENT-CLASS-264-104	c 27	N81-24257 *
US-PATENT-CLASS-260-2.5	c 18	N71-26155 *	US-PATENT-CLASS-260-520	c 23	N75-30256 *	US-PATENT-CLASS-264-104	c 23	N81-29160 *
US-PATENT-CLASS-260-2.5	c 06	N72-25150 *	US-PATENT-CLASS-260-535H	c 06	N72-27144 *	US-PATENT-CLASS-264-104	c 25	N83-13188 *
US-PATENT-CLASS-260-2.5	c 27	N78-32256 *	US-PATENT-CLASS-260-53	c 27	N79-28307 *	US-PATENT-CLASS-264-105	c 27	N81-24257 *
US-PATENT-CLASS-260-2R	c 37	N74-18126 *	US-PATENT-CLASS-260-544-D	c 27	N86-21675 *	US-PATENT-CLASS-264-111	c 17	N71-29137 *
US-PATENT-CLASS-260-2R	c 27	N74-27037 *	US-PATENT-CLASS-260-544-P	c 27	N87-14515 *	US-PATENT-CLASS-264-112	c 27	N85-20124 *
US-PATENT-CLASS-260-2R	c 27	N78-15276 *	US-PATENT-CLASS-260-544F	c 06	N72-20121 *	US-PATENT-CLASS-264-114	c 31	N90-19425 *
US-PATENT-CLASS-260-211.5	c 06	N72-25149 *	US-PATENT-CLASS-260-544P	c 27	N86-27450 *	US-PATENT-CLASS-264-118	c 24	N80-26388 *
US-PATENT-CLASS-260-240G	c 27	N76-32315 *	US-PATENT-CLASS-260-551P	c 27	N78-32256 *	US-PATENT-CLASS-264-118	c 24	N84-16262 *
US-PATENT-CLASS-260-245.75	c 27	N86-19455 *	US-PATENT-CLASS-260-566B	c 27	N76-32315 *	US-PATENT-CLASS-264-119	c 24	N80-26388 *
US-PATENT-CLASS-260-245.9	c 27	N86-19455 *	US-PATENT-CLASS-260-567.6M	c 06	N73-32029 *	US-PATENT-CLASS-264-11	c 27	N90-23566 *
US-PATENT-CLASS-260-28.5	c 27	N78-33228 *	US-PATENT-CLASS-260-571	c 23	N76-15268 *	US-PATENT-CLASS-264-120	c 27	N85-20124 *
US-PATENT-CLASS-260-29.1R	c 24	N78-24290 *	US-PATENT-CLASS-260-606.5P	c 27	N78-32256 *	US-PATENT-CLASS-264-124	c 24	N80-26388 *
US-PATENT-CLASS-260-29.6RB	c 25	N81-19242 *	US-PATENT-CLASS-260-615	c 06	N71-27254 *	US-PATENT-CLASS-264-129	c 37	N76-31524 *
US-PATENT-CLASS-260-29.6S	c 27	N74-17283 *	US-PATENT-CLASS-260-615	c 06	N73-30101 *	US-PATENT-CLASS-264-12	c 31	N83-35176 *
US-PATENT-CLASS-260-29.6	c 26	N75-27125 *	US-PATENT-CLASS-260-63N	c 27	N78-31232 *	US-PATENT-CLASS-264-12	c 31	N91-32240 *
US-PATENT-CLASS-260-2	c 06	N71-11243 *	US-PATENT-CLASS-260-63N	c 27	N78-32261 *	US-PATENT-CLASS-264-130	c 27	N78-32262 *
US-PATENT-CLASS-260-2	c 06	N71-20717 *	US-PATENT-CLASS-260-63R	c 27	N78-32261 *	US-PATENT-CLASS-264-135	c 37	N74-18126 *
US-PATENT-CLASS-260-2	c 06	N71-20905 *	US-PATENT-CLASS-260-65	c 06	N73-27980 *	US-PATENT-CLASS-264-136	c 37	N74-18126 *
US-PATENT-CLASS-260-2	c 06	N71-27363 *	US-PATENT-CLASS-260-65	c 27	N78-32261 *	US-PATENT-CLASS-264-136	c 24	N91-25200 *
US-PATENT-CLASS-260-2	c 06	N73-30102 *	US-PATENT-CLASS-260-65	c 23	N82-29358 *	US-PATENT-CLASS-264-137	c 27	N79-33316 *
US-PATENT-CLASS-260-2	c 27	N79-21190 *	US-PATENT-CLASS-260-67	c 27	N78-17214 *	US-PATENT-CLASS-264-137	c 27	N81-14078 *
US-PATENT-CLASS-260-30.2	c 06	N73-27980 *	US-PATENT-CLASS-260-67	c 27	N79-21191 *	US-PATENT-CLASS-264-137	c 27	N81-29229 *
US-PATENT-CLASS-260-30.4N	c 27	N78-17205 *	US-PATENT-CLASS-260-72.5	c 06	N71-11236 *	US-PATENT-CLASS-264-137	c 27	N83-34041 *
US-PATENT-CLASS-260-30.8DS	c 06	N73-27980 *	US-PATENT-CLASS-260-72.5	c 06	N71-11239 *	US-PATENT-CLASS-264-137	c 27	N85-20124 *
US-PATENT-CLASS-260-307G	c 27	N79-22300 *	US-PATENT-CLASS-260-72.5	c 06	N71-24740 *	US-PATENT-CLASS-264-145	c 15	N79-26100 *
US-PATENT-CLASS-260-32.2R	c 27	N78-17205 *	US-PATENT-CLASS-260-75NH	c 27	N78-17213 *	US-PATENT-CLASS-264-151	c 15	N79-26100 *
US-PATENT-CLASS-260-32.6NT	c 27	N78-17205 *	US-PATENT-CLASS-260-75NK	c 27	N78-17213 *	US-PATENT-CLASS-264-152	c 27	N85-20124 *
US-PATENT-CLASS-260-32.6N	c 06	N73-27980 *	US-PATENT-CLASS-260-75NT	c 27	N78-17213 *	US-PATENT-CLASS-264-157	c 24	N78-17150 *
US-PATENT-CLASS-260-32.6N	c 23	N76-15268 *	US-PATENT-CLASS-260-77.5AM	c 27	N78-17213 *	US-PATENT-CLASS-264-161	c 37	N76-31524 *
US-PATENT-CLASS-260-32.8N	c 23	N76-15268 *	US-PATENT-CLASS-260-77.5AN	c 27	N78-17213 *	US-PATENT-CLASS-264-175	c 15	N79-26100 *
US-PATENT-CLASS-260-326N	c 27	N81-17260 *	US-PATENT-CLASS-260-77.5AP	c 06	N72-27144 *	US-PATENT-CLASS-264-184	c 27	N78-32262 *
US-PATENT-CLASS-260-326S	c 27	N81-17260 *	US-PATENT-CLASS-260-77.5AP	c 06	N73-30076 *	US-PATENT-CLASS-264-184	c 37	N91-27562 *
US-PATENT-CLASS-260-33.4R	c 06	N73-27980 *	US-PATENT-CLASS-260-77.5AP	c 27	N77-31308 *	US-PATENT-CLASS-264-1	c 44	N79-24432 *
US-PATENT-CLASS-260-33.4R	c 27	N78-17205 *	US-PATENT-CLASS-260-77.5AP	c 27	N78-17213 *	US-PATENT-CLASS-264-204	c 27	N86-29039 *
US-PATENT-CLASS-260-33.4R	c 27	N81-19296 *	US-PATENT-CLASS-260-77.5AT	c 27	N78-17213 *	US-PATENT-CLASS-264-211.15	c 37	N91-27562 *
US-PATENT-CLASS-260-33.6EP	c 24	N78-27180 *	US-PATENT-CLASS-260-77.55P	c 27	N78-17213 *	US-PATENT-CLASS-264-211.16	c 37	N91-27562 *
US-PATENT-CLASS-260-33.6PQ	c 24	N78-27180 *	US-PATENT-CLASS-260-77.5	c 06	N73-30099 *	US-PATENT-CLASS-264-211.17	c 37	N91-27562 *
US-PATENT-CLASS-260-33.6R	c 06	N73-27980 *	US-PATENT-CLASS-260-77.5	c 06	N73-30100 *	US-PATENT-CLASS-264-211	c 27	N80-32262 *
US-PATENT-CLASS-260-33.6UB	c 27	N81-15104 *	US-PATENT-CLASS-260-77.5	c 06	N73-30103 *	US-PATENT-CLASS-264-212	c 27	N78-32516 *
US-PATENT-CLASS-260-33.8EP	c 24	N78-27180 *	US-PATENT-CLASS-260-78.41	c 27	N78-31232 *	US-PATENT-CLASS-264-212	c 27	N86-31727 *
US-PATENT-CLASS-260-33.8F	c 27	N76-24405 *	US-PATENT-CLASS-260-78TF	c 06	N73-27980 *	US-PATENT-CLASS-264-216	c 25	N82-21268 *
US-PATENT-CLASS-260-33.8F	c 25	N81-14016 *	US-PATENT-CLASS-260-78TF	c 27	N74-23125 *	US-PATENT-CLASS-264-216	c 27	N86-29039 *
US-PATENT-CLASS-260-33.8UA	c 24	N78-27180 *	US-PATENT-CLASS-260-78TF	c 23	N75-30256 *	US-PATENT-CLASS-264-217	c 25	N75-12087 *
US-PATENT-CLASS-260-340.9R	c 23	N82-16174 *	US-PATENT-CLASS-260-78TF	c 23	N76-15268 *	US-PATENT-CLASS-264-219	c 37	N76-31524 *
US-PATENT-CLASS-260-346.3	c 23	N75-30256 *	US-PATENT-CLASS-260-78TF	c 27	N78-32261 *	US-PATENT-CLASS-264-220	c 27	N82-28440 *
US-PATENT-CLASS-260-346.3	c 23	N76-15268 *	US-PATENT-CLASS-260-78UA	c 06	N73-27980 *	US-PATENT-CLASS-264-221	c 15	N72-16329 *
US-PATENT-CLASS-260-346.3	c 27	N80-32515 *	US-PATENT-CLASS-260-78	c 06	N71-11235 *	US-PATENT-CLASS-264-225	c 15	N72-16329 *
US-PATENT-CLASS-260-348SC	c 06	N72-25148 *	US-PATENT-CLASS-260-78	c 06	N71-11238 *	US-PATENT-CLASS-264-227	c 15	N72-16329 *
US-PATENT-CLASS-260-37EP	c 24	N78-24290 *	US-PATENT-CLASS-260-830S	c 15	N79-26100 *	US-PATENT-CLASS-264-229	c 24	N81-29163 *
US-PATENT-CLASS-260-37EP	c 24	N78-27180 *	US-PATENT-CLASS-260-85.5	c 06	N71-23500 *	US-PATENT-CLASS-264-22	c 15	N72-20446 *
US-PATENT-CLASS-260-37EP	c 15	N79-26100 *	US-PATENT-CLASS-260-858	c 27	N81-14076 *	US-PATENT-CLASS-264-22	c 14	N72-22439 *
US-PATENT-CLASS-260-37EP	c 27	N81-17260 *	US-PATENT-CLASS-260-877	c 06	N72-22107 *	US-PATENT-CLASS-264-22	c 25	N75-12087 *
US-PATENT-CLASS-260-37N	c 27	N79-28307 *	US-PATENT-CLASS-260-879	c 27	N76-16228 *	US-PATENT-CLASS-264-22	c 27	N80-32516 *
US-PATENT-CLASS-260-37	c 18	N71-25881 *	US-PATENT-CLASS-260-886	c 27	N81-14076 *	US-PATENT-CLASS-264-22	c 27	N82-28440 *
US-PATENT-CLASS-260-37	c 27	N81-24258 *	US-PATENT-CLASS-260-8900	c 27	N81-14076 *	US-PATENT-CLASS-264-230	c 37	N82-24491 *
US-PATENT-CLASS-260-386	c 25	N82-24312 *	US-PATENT-CLASS-260-895	c 27	N81-14076 *	US-PATENT-CLASS-264-231	c 24	N81-29163 *
US-PATENT-CLASS-260-386	c 23	N88-26404 *	US-PATENT-CLASS-260-898	c 27	N81-14076 *	US-PATENT-CLASS-264-234	c 37	N91-27562 *
US-PATENT-CLASS-260-389	c 25	N90-23497 *	US-PATENT-CLASS-260-900	c 27	N76-16228 *	US-PATENT-CLASS-264-236	c 27	N78-32262 *
US-PATENT-CLASS-260-389	c 23	N88-26404 *	US-PATENT-CLASS-260-901	c 27	N81-14076 *	US-PATENT-CLASS-264-236	c 15	N79-26100 *
US-PATENT-CLASS-260-395	c 23	N88-26404 *	US-PATENT-CLASS-260-92.1	c 06	N72-25150 *	US-PATENT-CLASS-264-236	c 27	N86-29039 *
US-PATENT-CLASS-260-395	c 25	N90-23497 *	US-PATENT-CLASS-260-92.1	c 06	N72-25152 *	US-PATENT-CLASS-264-236	c 27	N86-31727 *
US-PATENT-CLASS-260-396N	c 27	N74-27037 *	US-PATENT-CLASS-260-92.1	c 27	N76-16228 *	US-PATENT-CLASS-264-236	c 37	N89-29539 *
US-PATENT-CLASS-260-404.5	c 18	N71-15688 *	US-PATENT-CLASS-260-926	c 27	N76-24405 *	US-PATENT-CLASS-264-236	c 27	N91-27562 *
US-PATENT-CLASS-260-42.17	c 27	N78-17215 *	US-PATENT-CLASS-260-927-N	c 23	N80-10358 *	US-PATENT-CLASS-264-23	c 71	N78-10837 *
US-PATENT-CLASS-260-42.43	c 24	N78-27180 *	US-PATENT-CLASS-260-93.5A	c 06	N86-19376 *	US-PATENT-CLASS-264-23	c 31	N81-15154 *
US-PATENT-CLASS-260-429	c 06	N71-28808 *	US-PATENT-CLASS-260-93.5S	c 06	N73-32029 *	US-PATENT-CLASS-264-24	c 31	N81-33319 *
US-PATENT-CLASS-260-42	c 27	N79-28307 *	US-PATENT-CLASS-260-94.2M	c 06	N73-32029 *	US-PATENT-CLASS-264-24	c 31	N83-35176 *
US-PATENT-CLASS-260-448.2D	c 06	N72-25151 *	US-PATENT-CLASS-260-94.2R	c 06	N73-32029 *	US-PATENT-CLASS-264-257	c 27	N74-18126 *
US-PATENT-CLASS-260-448.2D	c 06	N73-32030 *	US-PATENT-CLASS-260-94.7R	c 06	N73-32029 *	US-PATENT-CLASS-264-257	c 24	N89-29539 *
US-PATENT-CLASS-260-448.2N	c 37	N74-21058 *	US-PATENT-CLASS-260-94.8	c 27	N73-32029 *	US-PATENT-CLASS-264-257	c 27	N91-25199 *
US-PATENT-CLASS-260-448.2	c 06	N71-23230 *	US-PATENT-CLASS-260-959	c 27	N78-32256 *	US-PATENT-CLASS-264-258	c 24	N91-25200 *
US-PATENT-CLASS-260-45.7R	c 24	N78-27180 *	US-PATENT-CLASS-260-96D	c 28	N81-15119 *	US-PATENT-CLASS-264-258	c 27	N81-29163 *
US-PATENT-CLASS-260-45.7R	c 27	N82-16238 *	US-PATENT-CLASS-261-DIG.75	c 34	N77-24423 *	US-PATENT-CLASS-264-258	c 27	N85-20124 *
US-PATENT-CLASS-260-45.75W	c 24	N78-27180 *	US-PATENT-CLASS-261-118	c 31	N80-18231 *	US-PATENT-CLASS-264-259	c 24	N81-29163 *

REPORT NUMBER INDEX

US-PATENT-CLASS-29-156.8R

US-PATENT-CLASS-264-261	c 24	N91-25199 *	US-PATENT-CLASS-269-242	c 18	N83-29303 *	US-PATENT-CLASS-277-96	c 37	N81-24442 *
US-PATENT-CLASS-264-267	c 37	N76-24575 *	US-PATENT-CLASS-269-242	c 37	N84-28083 *	US-PATENT-CLASS-279-1B	c 37	N75-33395 *
US-PATENT-CLASS-264-27	c 26	N71-17818 *	US-PATENT-CLASS-269-244	c 18	N83-29303 *	US-PATENT-CLASS-279-107	c 37	N75-33395 *
US-PATENT-CLASS-264-28	c 15	N73-12489 *	US-PATENT-CLASS-269-244	c 37	N84-28083 *	US-PATENT-CLASS-279-3	c 37	N78-17383 *
US-PATENT-CLASS-264-28	c 27	N80-23566 *	US-PATENT-CLASS-269-246	c 35	N88-24927 *	US-PATENT-CLASS-279-89	c 37	N75-33395 *
US-PATENT-CLASS-264-291	c 74	N87-28416 *	US-PATENT-CLASS-269-252	c 37	N84-28083 *	US-PATENT-CLASS-280-150SB	c 05	N75-25515 *
US-PATENT-CLASS-264-294	c 31	N74-13177 *	US-PATENT-CLASS-269-266	c 37	N78-27423 *	US-PATENT-CLASS-280-432	c 37	N77-14477 *
US-PATENT-CLASS-264-3R	c 28	N77-10213 *	US-PATENT-CLASS-269-267	c 37	N89-13785 *	US-PATENT-CLASS-280-47.11	c 85	N87-21755 *
US-PATENT-CLASS-264-3R	c 20	N77-17143 *	US-PATENT-CLASS-269-285	c 37	N84-28083 *	US-PATENT-CLASS-280-677	c 37	N90-17153 *
US-PATENT-CLASS-264-304	c 37	N76-31524 *	US-PATENT-CLASS-269-287	c 37	N80-23655 *	US-PATENT-CLASS-280-682	c 37	N90-17153 *
US-PATENT-CLASS-264-305	c 37	N76-31524 *	US-PATENT-CLASS-269-3	c 37	N84-12491 *	US-PATENT-CLASS-280-805	c 37	N82-18601 *
US-PATENT-CLASS-264-308	c 37	N76-31524 *	US-PATENT-CLASS-269-43	c 37	N88-14360 *	US-PATENT-CLASS-285-DIG.21	c 15	N72-25450 *
US-PATENT-CLASS-264-310	c 37	N76-31524 *	US-PATENT-CLASS-269-48.1	c 39	N74-13131 *	US-PATENT-CLASS-285-DIG.21	c 33	N73-26958 *
US-PATENT-CLASS-264-311	c 24	N81-29163 *	US-PATENT-CLASS-269-71	c 37	N88-14360 *	US-PATENT-CLASS-285-107	c 37	N89-13786 *
US-PATENT-CLASS-264-311	c 31	N90-19425 *	US-PATENT-CLASS-269-73	c 37	N88-14360 *	US-PATENT-CLASS-285-108	c 37	N89-13786 *
US-PATENT-CLASS-264-318	c 37	N76-31524 *	US-PATENT-CLASS-27-498	c 15	N73-28515 *	US-PATENT-CLASS-285-109	c 37	N89-13786 *
US-PATENT-CLASS-264-331.12	c 27	N85-20124 *	US-PATENT-CLASS-272-DIG.1	c 05	N73-32014 *	US-PATENT-CLASS-285-114	c 37	N75-19686 *
US-PATENT-CLASS-264-331.12	c 24	N91-25200 *	US-PATENT-CLASS-272-DIG.4	c 05	N73-32014 *	US-PATENT-CLASS-285-133.1	c 37	N89-13786 *
US-PATENT-CLASS-264-331.19	c 27	N85-20124 *	US-PATENT-CLASS-272-DIG.5	c 05	N73-32014 *	US-PATENT-CLASS-285-137.1	c 35	N87-28884 *
US-PATENT-CLASS-264-331.46	c 27	N83-34041 *	US-PATENT-CLASS-272-IR	c 09	N75-15662 *	US-PATENT-CLASS-285-159	c 37	N82-24494 *
US-PATENT-CLASS-264-331	c 27	N76-16230 *	US-PATENT-CLASS-272-57A	c 09	N75-15662 *	US-PATENT-CLASS-285-168	c 54	N86-28619 *
US-PATENT-CLASS-264-332	c 37	N81-25371 *	US-PATENT-CLASS-272-70	c 05	N71-28619 *	US-PATENT-CLASS-285-168	c 54	N86-28620 *
US-PATENT-CLASS-264-332	c 27	N87-28656 *	US-PATENT-CLASS-272-73	c 14	N73-27377 *	US-PATENT-CLASS-285-168	c 54	N86-29507 *
US-PATENT-CLASS-264-334	c 37	N76-31524 *	US-PATENT-CLASS-272-73	c 05	N73-27941 *	US-PATENT-CLASS-285-184	c 54	N86-29507 *
US-PATENT-CLASS-264-334	c 44	N79-24432 *	US-PATENT-CLASS-272-73	c 37	N74-18127 *	US-PATENT-CLASS-285-18	c 15	N72-20445 *
US-PATENT-CLASS-264-342R	c 37	N82-24491 *	US-PATENT-CLASS-272-79C	c 05	N73-32014 *	US-PATENT-CLASS-285-192	c 20	N78-24275 *
US-PATENT-CLASS-264-345	c 71	N78-10837 *	US-PATENT-CLASS-272-80	c 37	N74-18127 *	US-PATENT-CLASS-285-223	c 37	N92-21727 *
US-PATENT-CLASS-264-345	c 37	N91-27562 *	US-PATENT-CLASS-273-1E	c 05	N73-13114 *	US-PATENT-CLASS-285-226	c 37	N75-19686 *
US-PATENT-CLASS-264-347	c 27	N86-29039 *	US-PATENT-CLASS-273-240	c 31	N83-34073 *	US-PATENT-CLASS-285-226	c 37	N76-14460 *
US-PATENT-CLASS-264-347	c 27	N89-29539 *	US-PATENT-CLASS-274-4R	c 09	N72-11224 *	US-PATENT-CLASS-285-226	c 18	N89-28553 *
US-PATENT-CLASS-264-34	c 44	N79-24432 *	US-PATENT-CLASS-277-105	c 37	N82-24490 *	US-PATENT-CLASS-285-227	c 54	N86-29507 *
US-PATENT-CLASS-264-35	c 44	N79-24432 *	US-PATENT-CLASS-277-116.6	c 37	N84-11497 *	US-PATENT-CLASS-285-235	c 54	N78-31735 *
US-PATENT-CLASS-264-36	c 15	N73-12489 *	US-PATENT-CLASS-277-124	c 37	N84-11497 *	US-PATENT-CLASS-285-235	c 54	N79-24651 *
US-PATENT-CLASS-264-36	c 32	N74-27612 *	US-PATENT-CLASS-277-134	c 37	N75-12631 *	US-PATENT-CLASS-285-23	c 37	N92-10197 *
US-PATENT-CLASS-264-3	c 28	N71-26779 *	US-PATENT-CLASS-277-134	c 07	N78-25090 *	US-PATENT-CLASS-285-24	c 15	N71-10782 *
US-PATENT-CLASS-264-40.1	c 27	N89-29539 *	US-PATENT-CLASS-277-135	c 37	N85-29284 *	US-PATENT-CLASS-285-265	c 37	N76-14460 *
US-PATENT-CLASS-264-40.1	c 27	N90-23544 *	US-PATENT-CLASS-277-13	c 15	N71-26294 *	US-PATENT-CLASS-285-27	c 15	N70-41808 *
US-PATENT-CLASS-264-40.4	c 35	N80-18357 *	US-PATENT-CLASS-277-153	c 37	N80-28711 *	US-PATENT-CLASS-285-27	c 18	N87-27713 *
US-PATENT-CLASS-264-40.5	c 27	N89-29539 *	US-PATENT-CLASS-277-153	c 37	N81-26447 *	US-PATENT-CLASS-285-302	c 18	N89-25266 *
US-PATENT-CLASS-264-40.6	c 27	N89-29539 *	US-PATENT-CLASS-277-157	c 37	N91-27560 *	US-PATENT-CLASS-285-305	c 37	N87-22977 *
US-PATENT-CLASS-264-40	c 15	N73-12489 *	US-PATENT-CLASS-277-158	c 37	N90-23751 *	US-PATENT-CLASS-285-314	c 15	N71-24903 *
US-PATENT-CLASS-264-41	c 25	N81-19244 *	US-PATENT-CLASS-277-164	c 37	N84-11497 *	US-PATENT-CLASS-285-316	c 15	N72-25450 *
US-PATENT-CLASS-264-41	c 51	N84-28361 *	US-PATENT-CLASS-277-177	c 37	N84-11497 *	US-PATENT-CLASS-285-316	c 33	N73-26958 *
US-PATENT-CLASS-264-43	c 27	N90-23566 *	US-PATENT-CLASS-277-181	c 37	N81-15363 *	US-PATENT-CLASS-285-317	c 15	N71-24903 *
US-PATENT-CLASS-264-453	c 25	N82-21268 *	US-PATENT-CLASS-277-189	c 37	N82-16408 *	US-PATENT-CLASS-285-31	c 18	N87-27713 *
US-PATENT-CLASS-264-4	c 34	N90-23700 *	US-PATENT-CLASS-277-190	c 37	N84-11497 *	US-PATENT-CLASS-285-326	c 37	N79-11402 *
US-PATENT-CLASS-264-50	c 27	N88-23894 *	US-PATENT-CLASS-277-192	c 37	N79-22474 *	US-PATENT-CLASS-285-327	c 37	N91-14610 *
US-PATENT-CLASS-264-510	c 44	N79-24432 *	US-PATENT-CLASS-277-193	c 37	N80-28711 *	US-PATENT-CLASS-285-331	c 15	N70-41629 *
US-PATENT-CLASS-264-516	c 44	N79-24432 *	US-PATENT-CLASS-277-193	c 37	N81-26447 *	US-PATENT-CLASS-285-33	c 15	N72-25450 *
US-PATENT-CLASS-264-53	c 25	N82-21268 *	US-PATENT-CLASS-277-1	c 37	N82-24490 *	US-PATENT-CLASS-285-345	c 15	N72-20445 *
US-PATENT-CLASS-264-59	c 24	N84-16262 *	US-PATENT-CLASS-277-204	c 37	N82-24490 *	US-PATENT-CLASS-285-346	c 37	N92-21727 *
US-PATENT-CLASS-264-5	c 31	N81-33319 *	US-PATENT-CLASS-277-224	c 37	N80-28711 *	US-PATENT-CLASS-285-351	c 37	N89-13786 *
US-PATENT-CLASS-264-5	c 27	N82-28442 *	US-PATENT-CLASS-277-226	c 37	N91-27560 *	US-PATENT-CLASS-285-353	c 37	N92-10197 *
US-PATENT-CLASS-264-5	c 31	N83-31896 *	US-PATENT-CLASS-277-229	c 37	N81-15363 *	US-PATENT-CLASS-285-359	c 37	N79-11402 *
US-PATENT-CLASS-264-5	c 31	N83-35176 *	US-PATENT-CLASS-277-229	c 37	N91-27560 *	US-PATENT-CLASS-285-361	c 37	N91-14613 *
US-PATENT-CLASS-264-5	c 26	N86-32551 *	US-PATENT-CLASS-277-229	c 37	N92-22043 *	US-PATENT-CLASS-285-373	c 18	N87-27713 *
US-PATENT-CLASS-264-5	c 31	N91-32240 *	US-PATENT-CLASS-277-234	c 37	N92-22043 *	US-PATENT-CLASS-285-37	c 37	N82-24490 *
US-PATENT-CLASS-264-60	c 27	N76-22376 *	US-PATENT-CLASS-277-25	c 15	N69-21362 *	US-PATENT-CLASS-285-38	c 15	N71-24903 *
US-PATENT-CLASS-264-60	c 27	N79-14213 *	US-PATENT-CLASS-277-25	c 15	N71-19570 *	US-PATENT-CLASS-285-39	c 37	N89-13786 *
US-PATENT-CLASS-264-60	c 24	N84-16262 *	US-PATENT-CLASS-277-25	c 15	N72-29488 *	US-PATENT-CLASS-285-39	c 37	N92-10197 *
US-PATENT-CLASS-264-60	c 27	N87-28656 *	US-PATENT-CLASS-277-25	c 37	N74-10474 *	US-PATENT-CLASS-285-3	c 15	N69-27490 *
US-PATENT-CLASS-264-63	c 27	N76-22376 *	US-PATENT-CLASS-277-25	c 07	N78-25090 *	US-PATENT-CLASS-285-3	c 15	N72-25450 *
US-PATENT-CLASS-264-63	c 27	N87-28656 *	US-PATENT-CLASS-277-27	c 15	N72-29488 *	US-PATENT-CLASS-285-401	c 37	N82-24494 *
US-PATENT-CLASS-264-63	c 27	N92-16122 *	US-PATENT-CLASS-277-27	c 37	N74-10474 *	US-PATENT-CLASS-285-406	c 15	N71-24903 *
US-PATENT-CLASS-264-65	c 18	N73-14584 *	US-PATENT-CLASS-277-27	c 37	N74-15125 *	US-PATENT-CLASS-285-410	c 05	N72-11085 *
US-PATENT-CLASS-264-66	c 27	N76-22376 *	US-PATENT-CLASS-277-27	c 37	N75-21631 *	US-PATENT-CLASS-285-421	c 18	N87-27713 *
US-PATENT-CLASS-264-6	c 27	N90-23566 *	US-PATENT-CLASS-277-27	c 37	N82-12442 *	US-PATENT-CLASS-285-45	c 15	N71-28937 *
US-PATENT-CLASS-264-70	c 44	N79-24432 *	US-PATENT-CLASS-277-27	c 37	N92-16318 *	US-PATENT-CLASS-285-81	c 37	N87-22977 *
US-PATENT-CLASS-264-71	c 44	N79-24432 *	US-PATENT-CLASS-277-2	c 37	N82-24490 *	US-PATENT-CLASS-285-82	c 37	N91-14613 *
US-PATENT-CLASS-264-90	c 24	N78-17150 *	US-PATENT-CLASS-277-34.3	c 37	N92-21727 *	US-PATENT-CLASS-285-85	c 37	N87-22977 *
US-PATENT-CLASS-264-92	c 15	N71-17803 *	US-PATENT-CLASS-277-34	c 37	N90-23751 *	US-PATENT-CLASS-285-86	c 18	N87-27713 *
US-PATENT-CLASS-264-92	c 15	N72-24522 *	US-PATENT-CLASS-277-34	c 37	N91-27560 *	US-PATENT-CLASS-285-89	c 37	N82-24494 *
US-PATENT-CLASS-264-9	c 31	N81-33319 *	US-PATENT-CLASS-277-34	c 37	N92-21727 *	US-PATENT-CLASS-285-901	c 35	N87-28884 *
US-PATENT-CLASS-264-9	c 31	N83-31896 *	US-PATENT-CLASS-277-34	c 37	N92-22043 *	US-PATENT-CLASS-285-910	c 37	N92-21727 *
US-PATENT-CLASS-266-119	c 26	N80-28492 *	US-PATENT-CLASS-277-3	c 37	N92-21727 *	US-PATENT-CLASS-285-912	c 37	N92-10197 *
US-PATENT-CLASS-266-19	c 15	N70-33382 *	US-PATENT-CLASS-277-3	c 37	N92-22043 *	US-PATENT-CLASS-285-91	c 37	N87-22977 *
US-PATENT-CLASS-266-249	c 26	N80-28492 *	US-PATENT-CLASS-277-40	c 37	N75-21631 *	US-PATENT-CLASS-285-97	c 37	N89-13786 *
US-PATENT-CLASS-266-24	c 17	N72-28535 *	US-PATENT-CLASS-277-40	c 37	N82-12442 *	US-PATENT-CLASS-285-97	c 37	N92-21727 *
US-PATENT-CLASS-266-274	c 26	N80-28492 *	US-PATENT-CLASS-277-41	c 37	N76-22541 *	US-PATENT-CLASS-287-119	c 15	N70-41829 *
US-PATENT-CLASS-267-150	c 37	N85-34401 *	US-PATENT-CLASS-277-4	c 37	N76-22541 *	US-PATENT-CLASS-287-189.365	c 15	N71-26312 *
US-PATENT-CLASS-267-166	c 34	N74-18552 *	US-PATENT-CLASS-277-4	c 37	N82-24490 *	US-PATENT-CLASS-287-189.36	c 15	N71-10799 *
US-PATENT-CLASS-267-1	c 15	N69-27504 *	US-PATENT-CLASS-277-53	c 37	N86-20788 *	US-PATENT-CLASS-287-54A	c 11	N72-25287 *
US-PATENT-CLASS-267-1	c 15	N70-38225 *	US-PATENT-CLASS-277-53	c 37	N92-16318 *	US-PATENT-CLASS-287-85R	c 15	N73-12488 *
US-PATENT-CLASS-267-64	c 15	N71-21530 *	US-PATENT-CLASS-277-59	c 37	N82-24490 *	US-PATENT-CLASS-287-92	c 31	N73-32749 *
US-PATENT-CLASS-267-8R	c 37	N85-34401 *	US-PATENT-CLASS-277-62	c 37	N79-22475 *	US-PATENT-CLASS-29-DIG.1	c 44	N81-14389 *
US-PATENT-CLASS-269-147	c 35	N88-24927 *	US-PATENT-CLASS-277-72R	c 37	N82-24490 *	US-PATENT-CLASS-29-DIG.24	c 24	N75-33181 *
US-PATENT-CLASS-269-152	c 18	N83-29303 *	US-PATENT-CLASS-277-74	c 15	N72-29488 *	US-PATENT-CLASS-29-DIG.35	c 37	N77-23482 *
US-PATENT-CLASS-269-153	c 44	N79-19447 *	US-PATENT-CLASS-277-74	c 37	N76-22541 *	US-PATENT-CLASS-29-DIG.39	c 24	N75-33181 *
US-PATENT-CLASS-269-156	c 37	N80-14398 *	US-PATENT-CLASS-277-76	c 37	N92-22043 *	US-PATENT-CLASS-29-125	c 37	N79-10422 *
US-PATENT-CLASS-269-21	c 37	N76-21554 *	US-PATENT-CLASS-277-80	c 37	N85-29284 *	US-PATENT-CLASS-29-148.4A	c 37	N74-15128 *
US-PATENT-CLASS-269-21	c 37	N78-17383 *	US-PATENT-CLASS-277-81R	c 37	N82-16408 *	US-PATENT-CLASS-29-148.4B	c 37	N74-15128 *
US-PATENT-CLASS-269-21	c 37	N78-17223 *	US-PATENT-CLASS-277-91	c 37	N74-15125 *	US-PATENT-CLASS-29-148.4	c 15	N71-16052 *
US-PATENT-CLASS-269-21	c 76	N80-18951 *	US-PATENT-CLASS-277-93R	c 37	N76-22541 *	US-PATENT-CLASS-29-148.4	c 15	N71-17688 *
US-PATENT-CLASS-269-21	c 37	N81-33482 *	US-PATENT-CLASS-277-93R	c 37	N82-12442 *	US-PATENT-CLASS-29-155.55	c 15	N71-15986 *
US-PATENT-CLASS-269-21	c 37	N91-21545 *	US-PATENT-CLASS-277-96.1	c 37	N79-22475 *	US-PATENT-CLASS-29-156.5-R	c 24	N87-27742 *
US-PATENT-CLASS-269-224	c 37	N84-28083 *	US-PATENT-CLASS-277-96	c 37	N74-10474 *	US-PATENT-CLASS-29-156.8R	c 37	N78-24544 *

US-PATENT-CLASS-29-157.3H ...	c 74	N83-19596 *	US-PATENT-CLASS-29-492	c 09	N72-25261 *	US-PATENT-CLASS-29-592	c 35	N75-13213 *
US-PATENT-CLASS-29-157.3R ...	c 34	N74-18552 *	US-PATENT-CLASS-29-494	c 15	N73-33383 *	US-PATENT-CLASS-29-597	c 33	N77-26385 *
US-PATENT-CLASS-29-157.3	c 28	N70-41818 *	US-PATENT-CLASS-29-494	c 37	N74-21055 *	US-PATENT-CLASS-29-599	c 15	N72-25447 *
US-PATENT-CLASS-29-157	c 28	N71-15658 *	US-PATENT-CLASS-29-494	c 37	N75-13261 *	US-PATENT-CLASS-29-599	c 26	N73-26752 *
US-PATENT-CLASS-29-182.1	c 18	N71-23710 *	US-PATENT-CLASS-29-495	c 15	N71-21078 *	US-PATENT-CLASS-29-599	c 26	N73-32571 *
US-PATENT-CLASS-29-182.2	c 17	N71-23046 *	US-PATENT-CLASS-29-497.5	c 15	N73-28515 *	US-PATENT-CLASS-29-603	c 08	N71-27210 *
US-PATENT-CLASS-29-182.2	c 37	N75-26371 *	US-PATENT-CLASS-29-497.5	c 15	N73-33383 *	US-PATENT-CLASS-29-604	c 24	N75-13032 *
US-PATENT-CLASS-29-182.5	c 17	N72-28536 *	US-PATENT-CLASS-29-497.5	c 37	N74-11300 *	US-PATENT-CLASS-29-610SG	c 35	N85-21598 *
US-PATENT-CLASS-29-182.5	c 37	N75-26371 *	US-PATENT-CLASS-29-497.5	c 37	N75-13261 *	US-PATENT-CLASS-29-610	c 24	N75-30260 *
US-PATENT-CLASS-29-182.5	c 27	N76-15311 *	US-PATENT-CLASS-29-497	c 09	N72-25261 *	US-PATENT-CLASS-29-613	c 24	N75-30260 *
US-PATENT-CLASS-29-182.5	c 27	N77-13217 *	US-PATENT-CLASS-29-497	c 15	N73-32358 *	US-PATENT-CLASS-29-613	c 35	N82-24470 *
US-PATENT-CLASS-29-182	c 37	N74-13179 *	US-PATENT-CLASS-29-497	c 37	N74-18128 *	US-PATENT-CLASS-29-620	c 35	N82-31659 *
US-PATENT-CLASS-29-182	c 34	N76-27515 *	US-PATENT-CLASS-29-498	c 09	N72-25261 *	US-PATENT-CLASS-29-622	c 33	N77-26385 *
US-PATENT-CLASS-29-183.5	c 17	N70-38490 *	US-PATENT-CLASS-29-498	c 15	N73-33383 *	US-PATENT-CLASS-29-623.5	c 44	N83-32176 *
US-PATENT-CLASS-29-193	c 34	N76-27515 *	US-PATENT-CLASS-29-498	c 37	N74-11301 *	US-PATENT-CLASS-29-623.5	c 26	N84-22734 *
US-PATENT-CLASS-29-194	c 26	N75-19408 *	US-PATENT-CLASS-29-498	c 37	N74-18128 *	US-PATENT-CLASS-29-623.5	c 44	N84-28205 *
US-PATENT-CLASS-29-194	c 44	N76-14595 *	US-PATENT-CLASS-29-498	c 37	N74-21055 *	US-PATENT-CLASS-29-623.5	c 33	N91-27478 *
US-PATENT-CLASS-29-195A	c 27	N76-16229 *	US-PATENT-CLASS-29-502	c 09	N72-25261 *	US-PATENT-CLASS-29-624	c 15	N72-20444 *
US-PATENT-CLASS-29-195Y	c 14	N73-32320 *	US-PATENT-CLASS-29-503	c 37	N74-11301 *	US-PATENT-CLASS-29-624	c 14	N73-13417 *
US-PATENT-CLASS-29-195	c 44	N76-14595 *	US-PATENT-CLASS-29-504	c 37	N74-21055 *	US-PATENT-CLASS-29-627	c 44	N80-14474 *
US-PATENT-CLASS-29-196.2	c 17	N73-32414 *	US-PATENT-CLASS-29-504	c 37	N75-13261 *	US-PATENT-CLASS-29-628	c 15	N72-22491 *
US-PATENT-CLASS-29-196.2	c 26	N75-19408 *	US-PATENT-CLASS-29-517	c 15	N71-17650 *	US-PATENT-CLASS-29-628	c 09	N72-25261 *
US-PATENT-CLASS-29-196.2	c 17	N73-32414 *	US-PATENT-CLASS-29-521	c 26	N83-10170 *	US-PATENT-CLASS-29-628	c 09	N73-28083 *
US-PATENT-CLASS-29-196.6	c 37	N75-13261 *	US-PATENT-CLASS-29-526	c 37	N76-19437 *	US-PATENT-CLASS-29-628	c 33	N77-26385 *
US-PATENT-CLASS-29-196.6	c 26	N75-19408 *	US-PATENT-CLASS-29-526	c 39	N73-31562 *	US-PATENT-CLASS-29-628	c 44	N78-25528 *
US-PATENT-CLASS-29-197	c 17	N73-32414 *	US-PATENT-CLASS-29-527.2	c 15	N72-20444 *	US-PATENT-CLASS-29-628	c 09	N73-28083 *
US-PATENT-CLASS-29-197	c 37	N75-13261 *	US-PATENT-CLASS-29-527.2	c 15	N73-32360 *	US-PATENT-CLASS-29-630A	c 05	N72-25121 *
US-PATENT-CLASS-29-197	c 26	N75-19408 *	US-PATENT-CLASS-29-527.2	c 37	N74-11301 *	US-PATENT-CLASS-29-630A	c 09	N73-28083 *
US-PATENT-CLASS-29-197	c 44	N76-14595 *	US-PATENT-CLASS-29-527.2	c 24	N75-33181 *	US-PATENT-CLASS-29-630E	c 33	N77-26385 *
US-PATENT-CLASS-29-198	c 17	N70-33288 *	US-PATENT-CLASS-29-527.2	c 24	N77-19171 *	US-PATENT-CLASS-29-630	c 09	N73-28083 *
US-PATENT-CLASS-29-198	c 09	N72-25259 *	US-PATENT-CLASS-29-558	c 37	N91-32508 *	US-PATENT-CLASS-29-739	c 44	N79-24431 *
US-PATENT-CLASS-29-203H	c 37	N74-32918 *	US-PATENT-CLASS-29-568	c 37	N91-31656 *	US-PATENT-CLASS-29-764	c 60	N82-24839 *
US-PATENT-CLASS-29-203MW	c 33	N74-26977 *	US-PATENT-CLASS-29-57.4	c 44	N79-24431 *	US-PATENT-CLASS-29-809	c 44	N79-24431 *
US-PATENT-CLASS-29-203V	c 15	N73-14468 *	US-PATENT-CLASS-29-570	c 26	N72-28761 *	US-PATENT-CLASS-29-81C	c 75	N78-27913 *
US-PATENT-CLASS-29-23.5	c 37	N78-24544 *	US-PATENT-CLASS-29-571	c 35	N75-13213 *	US-PATENT-CLASS-29-81D	c 37	N76-18454 *
US-PATENT-CLASS-29-234	c 15	N70-36901 *	US-PATENT-CLASS-29-571	c 33	N78-27326 *	US-PATENT-CLASS-29-825	c 44	N84-28205 *
US-PATENT-CLASS-29-244	c 37	N78-24544 *	US-PATENT-CLASS-29-571	c 33	N81-26360 *	US-PATENT-CLASS-29-832	c 44	N81-14389 *
US-PATENT-CLASS-29-25.14	c 05	N72-25121 *	US-PATENT-CLASS-29-572	c 09	N71-23027 *	US-PATENT-CLASS-29-888.046	c 37	N90-22042 *
US-PATENT-CLASS-29-25.14	c 35	N82-24471 *	US-PATENT-CLASS-29-572	c 03	N71-24681 *	US-PATENT-CLASS-290-1-R	c 33	N87-23904 *
US-PATENT-CLASS-29-25.18	c 09	N71-26678 *	US-PATENT-CLASS-29-572	c 03	N72-22041 *	US-PATENT-CLASS-290-1R	c 44	N85-21769 *
US-PATENT-CLASS-29-25.18	c 05	N72-25121 *	US-PATENT-CLASS-29-572	c 44	N74-14784 *	US-PATENT-CLASS-290-4R	c 44	N85-21769 *
US-PATENT-CLASS-29-25.18	c 20	N75-18310 *	US-PATENT-CLASS-29-572	c 44	N76-14600 *	US-PATENT-CLASS-290-40	c 03	N71-11057 *
US-PATENT-CLASS-29-25.18	c 20	N76-21276 *	US-PATENT-CLASS-29-572	c 44	N76-28635 *	US-PATENT-CLASS-290-44	c 37	N90-23742 *
US-PATENT-CLASS-29-25.35	c 35	N80-20559 *	US-PATENT-CLASS-29-572	c 44	N77-10635 *	US-PATENT-CLASS-290-44	c 05	N91-14345 *
US-PATENT-CLASS-29-25.42	c 26	N72-28762 *	US-PATENT-CLASS-29-572	c 44	N78-24609 *	US-PATENT-CLASS-290-52	c 37	N77-32500 *
US-PATENT-CLASS-29-252	c 37	N78-24544 *	US-PATENT-CLASS-29-572	c 44	N78-25527 *	US-PATENT-CLASS-290-52	c 37	N77-32501 *
US-PATENT-CLASS-29-26A	c 37	N75-33395 *	US-PATENT-CLASS-29-572	c 44	N78-25528 *	US-PATENT-CLASS-290-53	c 44	N80-29834 *
US-PATENT-CLASS-29-267	c 60	N82-24839 *	US-PATENT-CLASS-29-572	c 44	N78-25529 *	US-PATENT-CLASS-290-55	c 44	N84-23018 *
US-PATENT-CLASS-29-268	c 37	N74-32918 *	US-PATENT-CLASS-29-572	c 44	N79-11468 *	US-PATENT-CLASS-290-55	c 37	N90-23742 *
US-PATENT-CLASS-29-271	c 15	N70-41371 *	US-PATENT-CLASS-29-572	c 44	N79-11472 *	US-PATENT-CLASS-290-55	c 05	N91-14345 *
US-PATENT-CLASS-29-278R	c 15	N71-29133 *	US-PATENT-CLASS-29-572	c 44	N79-17314 *	US-PATENT-CLASS-292-DIG.14	c 37	N75-19685 *
US-PATENT-CLASS-29-400	c 05	N71-12345 *	US-PATENT-CLASS-29-572	c 44	N79-18444 *	US-PATENT-CLASS-292-DIG.39	c 37	N92-21500 *
US-PATENT-CLASS-29-402.16	c 37	N86-32736 *	US-PATENT-CLASS-29-572	c 44	N79-24431 *	US-PATENT-CLASS-292-DIG.49	c 37	N87-25582 *
US-PATENT-CLASS-29-412	c 15	N72-20444 *	US-PATENT-CLASS-29-572	c 44	N79-26475 *	US-PATENT-CLASS-292-108	c 37	N75-19685 *
US-PATENT-CLASS-29-419	c 24	N75-28135 *	US-PATENT-CLASS-29-572	c 44	N79-31752 *	US-PATENT-CLASS-292-110	c 37	N77-32499 *
US-PATENT-CLASS-29-420.5	c 26	N74-10521 *	US-PATENT-CLASS-29-572	c 44	N80-14474 *	US-PATENT-CLASS-292-110	c 37	N92-21500 *
US-PATENT-CLASS-29-420.5	c 37	N74-13179 *	US-PATENT-CLASS-29-572	c 44	N82-28780 *	US-PATENT-CLASS-292-122	c 37	N75-19685 *
US-PATENT-CLASS-29-420.5	c 37	N75-26371 *	US-PATENT-CLASS-29-572	c 44	N82-29709 *	US-PATENT-CLASS-292-201	c 37	N87-25582 *
US-PATENT-CLASS-29-420	c 24	N75-13032 *	US-PATENT-CLASS-29-572	c 44	N83-13579 *	US-PATENT-CLASS-292-251.5	c 31	N92-16161 *
US-PATENT-CLASS-29-421E	c 37	N79-13364 *	US-PATENT-CLASS-29-572	c 76	N86-20150 *	US-PATENT-CLASS-292-252	c 37	N85-21649 *
US-PATENT-CLASS-29-421	c 15	N71-29018 *	US-PATENT-CLASS-29-572	c 44	N86-32875 *	US-PATENT-CLASS-292-27	c 37	N90-17154 *
US-PATENT-CLASS-29-421	c 14	N72-22439 *	US-PATENT-CLASS-29-573	c 14	N73-13417 *	US-PATENT-CLASS-292-34	c 37	N90-17154 *
US-PATENT-CLASS-29-421	c 37	N76-14461 *	US-PATENT-CLASS-29-575	c 76	N87-15882 *	US-PATENT-CLASS-292-60	c 37	N91-27561 *
US-PATENT-CLASS-29-423	c 15	N70-36409 *	US-PATENT-CLASS-29-576-E	c 76	N87-15882 *	US-PATENT-CLASS-292-61	c 37	N91-27561 *
US-PATENT-CLASS-29-423	c 31	N74-21059 *	US-PATENT-CLASS-29-576-J	c 76	N87-15882 *	US-PATENT-CLASS-292-64	c 37	N87-25582 *
US-PATENT-CLASS-29-423	c 52	N84-28389 *	US-PATENT-CLASS-29-576-W	c 76	N87-15882 *	US-PATENT-CLASS-294-1R	c 35	N76-16392 *
US-PATENT-CLASS-29-426	c 15	N72-20444 *	US-PATENT-CLASS-29-576B	c 44	N86-32875 *	US-PATENT-CLASS-294-106	c 37	N81-14320 *
US-PATENT-CLASS-29-428	c 15	N71-17686 *	US-PATENT-CLASS-29-576E	c 76	N85-30922 *	US-PATENT-CLASS-294-106	c 37	N88-23979 *
US-PATENT-CLASS-29-432	c 37	N76-19437 *	US-PATENT-CLASS-29-576J	c 35	N82-31659 *	US-PATENT-CLASS-294-106	c 37	N90-20408 *
US-PATENT-CLASS-29-433	c 37	N76-19437 *	US-PATENT-CLASS-29-576J	c 76	N85-30922 *	US-PATENT-CLASS-294-106	c 37	N91-14616 *
US-PATENT-CLASS-29-446	c 37	N83-36482 *	US-PATENT-CLASS-29-576S	c 35	N82-31659 *	US-PATENT-CLASS-294-111	c 37	N91-14616 *
US-PATENT-CLASS-29-447	c 37	N77-23482 *	US-PATENT-CLASS-29-576W	c 76	N85-30922 *	US-PATENT-CLASS-294-113	c 37	N80-14398 *
US-PATENT-CLASS-29-451	c 52	N84-28389 *	US-PATENT-CLASS-29-577	c 44	N79-26475 *	US-PATENT-CLASS-294-113	c 37	N88-23979 *
US-PATENT-CLASS-29-452	c 15	N73-30457 *	US-PATENT-CLASS-29-578	c 26	N72-17820 *	US-PATENT-CLASS-294-116	c 37	N75-33395 *
US-PATENT-CLASS-29-458	c 26	N83-10170 *	US-PATENT-CLASS-29-578	c 33	N78-27326 *	US-PATENT-CLASS-294-116	c 37	N82-32731 *
US-PATENT-CLASS-29-460	c 37	N74-11301 *	US-PATENT-CLASS-29-578	c 44	N79-18444 *	US-PATENT-CLASS-294-119.1	c 37	N91-14615 *
US-PATENT-CLASS-29-460	c 37	N75-13261 *	US-PATENT-CLASS-29-578	c 44	N79-26475 *	US-PATENT-CLASS-294-119.2	c 37	N88-23979 *
US-PATENT-CLASS-29-463	c 07	N78-33101 *	US-PATENT-CLASS-29-578	c 33	N81-26360 *	US-PATENT-CLASS-294-15	c 15	N71-29133 *
US-PATENT-CLASS-29-467	c 39	N76-31562 *	US-PATENT-CLASS-29-578	c 76	N85-30922 *	US-PATENT-CLASS-294-16	c 37	N88-23979 *
US-PATENT-CLASS-29-470.1	c 37	N74-21057 *	US-PATENT-CLASS-29-578	c 76	N87-15882 *	US-PATENT-CLASS-294-19R	c 35	N76-16392 *
US-PATENT-CLASS-29-470.1	c 37	N75-12326 *	US-PATENT-CLASS-29-580	c 09	N73-27150 *	US-PATENT-CLASS-294-82.26	c 37	N91-32498 *
US-PATENT-CLASS-29-472.7	c 37	N75-15992 *	US-PATENT-CLASS-29-580	c 44	N79-26475 *	US-PATENT-CLASS-294-83	c 15	N71-24897 *
US-PATENT-CLASS-29-472.9	c 15	N69-39786 *	US-PATENT-CLASS-29-580	c 33	N81-26360 *	US-PATENT-CLASS-294-86.33	c 37	N75-33395 *
US-PATENT-CLASS-29-472.9	c 26	N71-16037 *	US-PATENT-CLASS-29-580	c 35	N87-14671 *	US-PATENT-CLASS-294-86.4	c 37	N90-20408 *
US-PATENT-CLASS-29-472.9	c 15	N72-22492 *	US-PATENT-CLASS-29-588	c 14	N71-27334 *	US-PATENT-CLASS-294-86.4	c 37	N91-31656 *
US-PATENT-CLASS-29-473.1	c 15	N72-22487 *	US-PATENT-CLASS-29-588	c 14	N72-31446 *	US-PATENT-CLASS-294-86R	c 37	N80-14398 *
US-PATENT-CLASS-29-473.1	c 15	N72-22492 *	US-PATENT-CLASS-29-588	c 44	N74-14784 *	US-PATENT-CLASS-294-86R	c 37	N81-27519 *
US-PATENT-CLASS-29-473.1	c 37	N75-15992 *	US-PATENT-CLASS-29-588	c 44	N80-14474 *	US-PATENT-CLASS-294-86R	c 18	N83-29303 *
US-PATENT-CLASS-29-475	c 37	N75-12326 *	US-PATENT-CLASS-29-589	c 26	N72-17820 *	US-PATENT-CLASS-294-88	c 37	N89-13785 *
US-PATENT-CLASS-29-482	c 05	N72-25121 *	US-PATENT-CLASS-29-589	c 09	N72-25261 *	US-PATENT-CLASS-294-93	c 54	N81-26718 *
US-PATENT-CLASS-29-482	c 37	N74-18128 *	US-PATENT-CLASS-29-589	c 15	N73-14469 *	US-PATENT-CLASS-296-1S	c 85	N82-33288 *
US-PATENT-CLASS-29-487	c 15	N73-33383 *	US-PATENT-CLASS-29-589	c 44	N79-31752 *	US-PATENT-CLASS-296-1S	c 02	N88-14071 *
US-PATENT-CLASS-29-487	c 37	N74-21055 *	US-PATENT-CLASS-29-590	c 09	N72-22199 *	US-PATENT-CLASS-296-100	c 37	N87-17036 *
US-PATENT-CLASS-29-488	c 15	N70-33311 *	US-PATENT-CLASS-29-591	c 15	N73-14469 *	US-PATENT-CLASS-296-20	c 85	N87-21755 *
US-PATENT-CLASS-29-488	c 37	N74-18128 *	US-PATENT-CLASS-29-591	c 44	N79-18444 *	US-PATENT-CLASS-296-24C	c 85	N82-33288 *
US-PATENT-CLASS-29-492	c 15	N71-20443 *	US-PATENT-CLASS-29-591	c 35	N87-14671 *	US-PATENT-CLASS-296-91	c 85	N82-33288 *

REPORT NUMBER INDEX

US-PATENT-CLASS-307-88.5

US-PATENT-CLASS-297-DIG.5	c 03	N84-33394 *	US-PATENT-CLASS-307-222	c 08	N71-29034 *	US-PATENT-CLASS-307-273	c 10	N71-18723 *
US-PATENT-CLASS-297-216	c 05	N70-35152 *	US-PATENT-CLASS-307-223B	c 09	N72-22201 *	US-PATENT-CLASS-307-273	c 09	N71-27016 *
US-PATENT-CLASS-297-216	c 37	N88-23982 *	US-PATENT-CLASS-307-223	c 09	N72-17157 *	US-PATENT-CLASS-307-273	c 09	N71-28468 *
US-PATENT-CLASS-297-232	c 05	N72-11085 *	US-PATENT-CLASS-307-225R	c 33	N74-10223 *	US-PATENT-CLASS-307-273	c 10	N71-28860 *
US-PATENT-CLASS-297-385	c 05	N71-12341 *	US-PATENT-CLASS-307-225R	c 33	N75-31330 *	US-PATENT-CLASS-307-273	c 09	N71-29139 *
US-PATENT-CLASS-297-385	c 05	N75-25915 *	US-PATENT-CLASS-307-225R	c 33	N77-24375 *	US-PATENT-CLASS-307-273	c 10	N72-20221 *
US-PATENT-CLASS-297-386	c 15	N73-30460 *	US-PATENT-CLASS-307-225R	c 60	N81-15706 *	US-PATENT-CLASS-307-280	c 33	N72-21314 *
US-PATENT-CLASS-297-388	c 05	N75-25915 *	US-PATENT-CLASS-307-227	c 09	N72-17157 *	US-PATENT-CLASS-307-284	c 09	N72-22201 *
US-PATENT-CLASS-297-389	c 05	N75-25915 *	US-PATENT-CLASS-307-227	c 33	N75-19522 *	US-PATENT-CLASS-307-288	c 09	N71-23015 *
US-PATENT-CLASS-297-68	c 05	N71-12343 *	US-PATENT-CLASS-307-229	c 09	N71-12520 *	US-PATENT-CLASS-307-288	c 09	N71-28468 *
US-PATENT-CLASS-297-68	c 05	N72-11085 *	US-PATENT-CLASS-307-229	c 09	N72-23173 *	US-PATENT-CLASS-307-288	c 10	N72-20221 *
US-PATENT-CLASS-299-13	c 43	N81-26509 *	US-PATENT-CLASS-307-229	c 33	N75-18479 *	US-PATENT-CLASS-307-288	c 09	N72-22202 *
US-PATENT-CLASS-299-17	c 43	N81-26509 *	US-PATENT-CLASS-307-229	c 33	N77-17354 *	US-PATENT-CLASS-307-289	c 10	N71-19547 *
US-PATENT-CLASS-299-1	c 43	N79-26439 *	US-PATENT-CLASS-307-229	c 33	N78-32339 *	US-PATENT-CLASS-307-28	c 03	N73-31988 *
US-PATENT-CLASS-299-1	c 35	N84-33768 *	US-PATENT-CLASS-307-230	c 10	N72-16172 *	US-PATENT-CLASS-307-290	c 33	N74-22814 *
US-PATENT-CLASS-299-20	c 43	N81-26509 *	US-PATENT-CLASS-307-230	c 09	N72-21245 *	US-PATENT-CLASS-307-291	c 60	N81-15706 *
US-PATENT-CLASS-299-67	c 46	N74-23068 *	US-PATENT-CLASS-307-230	c 09	N73-20232 *	US-PATENT-CLASS-307-294	c 09	N71-29139 *
US-PATENT-CLASS-299-66	c 46	N74-23068 *	US-PATENT-CLASS-307-230	c 33	N74-32712 *	US-PATENT-CLASS-307-295	c 10	N72-17171 *
US-PATENT-CLASS-3-1.1	c 05	N73-32013 *	US-PATENT-CLASS-307-230	c 33	N77-17354 *	US-PATENT-CLASS-307-295	c 10	N72-20223 *
US-PATENT-CLASS-3-1.1	c 52	N77-14738 *	US-PATENT-CLASS-307-230	c 33	N78-32339 *	US-PATENT-CLASS-307-295	c 09	N72-21245 *
US-PATENT-CLASS-3-1.1	c 54	N79-24652 *	US-PATENT-CLASS-307-231	c 09	N72-22202 *	US-PATENT-CLASS-307-295	c 09	N72-33204 *
US-PATENT-CLASS-3-1.1	c 74	N84-11921 *	US-PATENT-CLASS-307-232	c 33	N77-21314 *	US-PATENT-CLASS-307-295	c 33	N74-34638 *
US-PATENT-CLASS-3-1.2	c 52	N77-14735 *	US-PATENT-CLASS-307-232	c 33	N79-11313 *	US-PATENT-CLASS-307-295	c 33	N77-13315 *
US-PATENT-CLASS-3-1.2	c 52	N78-10686 *	US-PATENT-CLASS-307-233R	c 32	N79-10262 *	US-PATENT-CLASS-307-296.2	c 33	N92-16196 *
US-PATENT-CLASS-3-1.9	c 27	N78-17215 *	US-PATENT-CLASS-307-233R	c 33	N81-17348 *	US-PATENT-CLASS-307-296.7	c 33	N92-16196 *
US-PATENT-CLASS-3-1.9	c 52	N79-26772 *	US-PATENT-CLASS-307-233	c 09	N72-25257 *	US-PATENT-CLASS-307-296	c 08	N71-12494 *
US-PATENT-CLASS-3-12.5	c 54	N78-17676 *	US-PATENT-CLASS-307-233	c 10	N73-26229 *	US-PATENT-CLASS-307-296	c 07	N71-28430 *
US-PATENT-CLASS-3-12.5	c 54	N79-24652 *	US-PATENT-CLASS-307-233	c 33	N77-13315 *	US-PATENT-CLASS-307-297	c 33	N78-17294 *
US-PATENT-CLASS-3-12	c 05	N73-32013 *	US-PATENT-CLASS-307-234	c 10	N71-23315 *	US-PATENT-CLASS-307-299	c 08	N72-21198 *
US-PATENT-CLASS-3-12	c 52	N79-26772 *	US-PATENT-CLASS-307-234	c 09	N71-27016 *	US-PATENT-CLASS-307-299	c 26	N72-21701 *
US-PATENT-CLASS-3-14	c 52	N77-14735 *	US-PATENT-CLASS-307-234	c 08	N71-29138 *	US-PATENT-CLASS-307-29	c 03	N73-31988 *
US-PATENT-CLASS-3-15	c 52	N78-10686 *	US-PATENT-CLASS-307-235R	c 33	N75-18479 *	US-PATENT-CLASS-307-300	c 10	N71-27126 *
US-PATENT-CLASS-3-1	c 52	N77-25772 *	US-PATENT-CLASS-307-235	c 10	N71-19471 *	US-PATENT-CLASS-307-303	c 08	N72-21198 *
US-PATENT-CLASS-3-21	c 54	N77-30749 *	US-PATENT-CLASS-307-235	c 09	N71-23545 *	US-PATENT-CLASS-307-303	c 33	N92-16196 *
US-PATENT-CLASS-3-29	c 52	N78-10686 *	US-PATENT-CLASS-307-235	c 10	N71-24862 *	US-PATENT-CLASS-307-304	c 09	N72-22201 *
US-PATENT-CLASS-3-2	c 05	N73-32013 *	US-PATENT-CLASS-307-237	c 09	N72-22200 *	US-PATENT-CLASS-307-304	c 09	N73-20232 *
US-PATENT-CLASS-3-2	c 54	N77-30749 *	US-PATENT-CLASS-307-237	c 32	N74-19788 *	US-PATENT-CLASS-307-304	c 33	N74-34638 *
US-PATENT-CLASS-3-2	c 52	N79-26772 *	US-PATENT-CLASS-307-238	c 33	N75-31331 *	US-PATENT-CLASS-307-305	c 09	N72-23171 *
US-PATENT-CLASS-3-6	c 05	N73-32013 *	US-PATENT-CLASS-307-238	c 33	N77-21314 *	US-PATENT-CLASS-307-306	c 33	N78-13320 *
US-PATENT-CLASS-30-102	c 37	N82-26672 *	US-PATENT-CLASS-307-241	c 09	N72-22201 *	US-PATENT-CLASS-307-306	c 33	N81-17348 *
US-PATENT-CLASS-30-180	c 37	N84-28085 *	US-PATENT-CLASS-307-242	c 10	N73-13235 *	US-PATENT-CLASS-307-308	c 14	N73-28488 *
US-PATENT-CLASS-30-188	c 37	N84-28085 *	US-PATENT-CLASS-307-243	c 09	N71-12516 *	US-PATENT-CLASS-307-309	c 35	N75-13213 *
US-PATENT-CLASS-30-228	c 15	N70-42017 *	US-PATENT-CLASS-307-243	c 08	N72-22162 *	US-PATENT-CLASS-307-310	c 09	N73-14214 *
US-PATENT-CLASS-30-228	c 37	N84-28085 *	US-PATENT-CLASS-307-243	c 33	N74-22814 *	US-PATENT-CLASS-307-311	c 14	N72-18411 *
US-PATENT-CLASS-30-249	c 37	N84-28085 *	US-PATENT-CLASS-307-246	c 09	N71-27016 *	US-PATENT-CLASS-307-311	c 08	N72-21198 *
US-PATENT-CLASS-30-272R	c 37	N84-28085 *	US-PATENT-CLASS-307-247	c 09	N71-29139 *	US-PATENT-CLASS-307-311	c 09	N73-14214 *
US-PATENT-CLASS-30-388	c 37	N91-31655 *	US-PATENT-CLASS-307-247	c 09	N72-22202 *	US-PATENT-CLASS-307-311	c 33	N92-16196 *
US-PATENT-CLASS-30-90.6	c 37	N79-10419 *	US-PATENT-CLASS-307-251	c 09	N71-33109 *	US-PATENT-CLASS-307-313	c 10	N72-20221 *
US-PATENT-CLASS-30-92	c 37	N91-31655 *	US-PATENT-CLASS-307-251	c 08	N72-22162 *	US-PATENT-CLASS-307-317	c 09	N72-22200 *
US-PATENT-CLASS-301-5P	c 37	N74-18125 *	US-PATENT-CLASS-307-252F	c 09	N72-17153 *	US-PATENT-CLASS-307-317	c 09	N72-22201 *
US-PATENT-CLASS-301-82	c 33	N79-10339 *	US-PATENT-CLASS-307-252J	c 09	N72-17153 *	US-PATENT-CLASS-307-31	c 44	N87-21410 *
US-PATENT-CLASS-302-66	c 25	N79-11152 *	US-PATENT-CLASS-307-252J	c 09	N72-22201 *	US-PATENT-CLASS-307-321	c 33	N75-19520 *
US-PATENT-CLASS-302-92	c 44	N79-14527 *	US-PATENT-CLASS-307-252K	c 09	N72-22201 *	US-PATENT-CLASS-307-321	c 33	N75-25041 *
US-PATENT-CLASS-305-35EB	c 11	N73-26238 *	US-PATENT-CLASS-307-252L	c 33	N74-27682 *	US-PATENT-CLASS-307-322	c 10	N72-22236 *
US-PATENT-CLASS-305-36	c 37	N87-17034 *	US-PATENT-CLASS-307-252N	c 09	N72-23171 *	US-PATENT-CLASS-307-323	c 10	N72-22236 *
US-PATENT-CLASS-305-39	c 11	N73-26238 *	US-PATENT-CLASS-307-252Q	c 33	N74-27682 *	US-PATENT-CLASS-307-350	c 33	N78-18308 *
US-PATENT-CLASS-305-51	c 37	N87-17034 *	US-PATENT-CLASS-307-252R	c 09	N72-23171 *	US-PATENT-CLASS-307-352	c 33	N81-27396 *
US-PATENT-CLASS-305-58PC	c 37	N87-17034 *	US-PATENT-CLASS-307-252UA	c 33	N81-27395 *	US-PATENT-CLASS-307-353	c 33	N81-27396 *
US-PATENT-CLASS-305-58R	c 37	N87-17034 *	US-PATENT-CLASS-307-252	c 10	N69-39888 *	US-PATENT-CLASS-307-353	c 33	N91-26438 *
US-PATENT-CLASS-307-103	c 09	N72-25262 *	US-PATENT-CLASS-307-252	c 09	N71-12514 *	US-PATENT-CLASS-307-354	c 33	N87-21235 *
US-PATENT-CLASS-307-104	c 09	N71-24892 *	US-PATENT-CLASS-307-253	c 10	N71-27126 *	US-PATENT-CLASS-307-35	c 33	N74-34638 *
US-PATENT-CLASS-307-106	c 09	N69-21468 *	US-PATENT-CLASS-307-254	c 10	N71-24799 *	US-PATENT-CLASS-307-360	c 33	N78-18308 *
US-PATENT-CLASS-307-106	c 33	N88-24862 *	US-PATENT-CLASS-307-254	c 09	N72-22200 *	US-PATENT-CLASS-307-38	c 03	N73-31988 *
US-PATENT-CLASS-307-118	c 09	N72-27227 *	US-PATENT-CLASS-307-257	c 09	N72-21247 *	US-PATENT-CLASS-307-415	c 33	N82-24418 *
US-PATENT-CLASS-307-119	c 33	N79-28415 *	US-PATENT-CLASS-307-259	c 09	N72-21247 *	US-PATENT-CLASS-307-425	c 36	N87-25567 *
US-PATENT-CLASS-307-126	c 14	N71-27407 *	US-PATENT-CLASS-307-259	c 09	N72-23171 *	US-PATENT-CLASS-307-490	c 33	N87-22895 *
US-PATENT-CLASS-307-127	c 33	N74-14956 *	US-PATENT-CLASS-307-259	c 10	N73-13235 *	US-PATENT-CLASS-307-520	c 33	N85-29145 *
US-PATENT-CLASS-307-131	c 44	N87-21410 *	US-PATENT-CLASS-307-260	c 09	N71-23311 *	US-PATENT-CLASS-307-521	c 33	N85-29145 *
US-PATENT-CLASS-307-136	c 09	N69-27500 *	US-PATENT-CLASS-307-260	c 05	N71-23317 *	US-PATENT-CLASS-307-529	c 33	N85-29145 *
US-PATENT-CLASS-307-141.8	c 03	N72-25020 *	US-PATENT-CLASS-307-260	c 33	N75-19515 *	US-PATENT-CLASS-307-53	c 10	N71-26626 *
US-PATENT-CLASS-307-149	c 09	N71-13486 *	US-PATENT-CLASS-307-261	c 09	N71-33109 *	US-PATENT-CLASS-307-53	c 33	N78-17296 *
US-PATENT-CLASS-307-149	c 54	N75-12616 *	US-PATENT-CLASS-307-261	c 09	N72-25251 *	US-PATENT-CLASS-307-566	c 33	N86-20672 *
US-PATENT-CLASS-307-151	c 32	N78-24391 *	US-PATENT-CLASS-307-261	c 33	N87-21235 *	US-PATENT-CLASS-307-570	c 33	N86-20672 *
US-PATENT-CLASS-307-157	c 16	N73-32391 *	US-PATENT-CLASS-307-262	c 10	N72-16172 *	US-PATENT-CLASS-307-572	c 33	N86-20672 *
US-PATENT-CLASS-307-18	c 03	N73-31988 *	US-PATENT-CLASS-307-262	c 09	N72-22197 *	US-PATENT-CLASS-307-63	c 44	N80-14472 *
US-PATENT-CLASS-307-18	c 33	N74-34638 *	US-PATENT-CLASS-307-262	c 09	N72-33204 *	US-PATENT-CLASS-307-64	c 33	N77-30365 *
US-PATENT-CLASS-307-201	c 32	N92-22033 *	US-PATENT-CLASS-307-263	c 09	N71-23270 *	US-PATENT-CLASS-307-64	c 44	N85-21769 *
US-PATENT-CLASS-307-204	c 35	N75-30504 *	US-PATENT-CLASS-307-263	c 09	N71-28926 *	US-PATENT-CLASS-307-64	c 44	N87-21410 *
US-PATENT-CLASS-307-205	c 33	N75-14957 *	US-PATENT-CLASS-307-264	c 33	N86-20672 *	US-PATENT-CLASS-307-66	c 44	N80-14472 *
US-PATENT-CLASS-307-206	c 10	N72-22236 *	US-PATENT-CLASS-307-265	c 09	N69-39987 *	US-PATENT-CLASS-307-66	c 44	N85-21769 *
US-PATENT-CLASS-307-207	c 08	N71-29034 *	US-PATENT-CLASS-307-265	c 10	N71-23029 *	US-PATENT-CLASS-307-66	c 44	N87-21410 *
US-PATENT-CLASS-307-207	c 09	N73-13209 *	US-PATENT-CLASS-307-265	c 09	N71-28468 *	US-PATENT-CLASS-307-69	c 33	N78-17296 *
US-PATENT-CLASS-307-208	c 33	N75-14957 *	US-PATENT-CLASS-307-265	c 10	N71-28860 *	US-PATENT-CLASS-307-80	c 44	N87-21410 *
US-PATENT-CLASS-307-211	c 35	N75-30504 *	US-PATENT-CLASS-307-265	c 08	N71-29138 *	US-PATENT-CLASS-307-81	c 09	N72-17157 *
US-PATENT-CLASS-307-215	c 10	N71-28860 *	US-PATENT-CLASS-307-265	c 09	N71-29139 *	US-PATENT-CLASS-307-82	c 33	N79-24254 *
US-PATENT-CLASS-307-215	c 09	N71-29139 *	US-PATENT-CLASS-307-265	c 33	N78-18308 *	US-PATENT-CLASS-307-82	c 33	N85-29147 *
US-PATENT-CLASS-307-215	c 10	N72-22236 *	US-PATENT-CLASS-307-267	c 09	N71-20447 *	US-PATENT-CLASS-307-83	c 09	N72-25262 *
US-PATENT-CLASS-307-215	c 09	N73-13209 *	US-PATENT-CLASS-307-267	c 33	N74-32711 *	US-PATENT-CLASS-307-87	c 33	N84-33660 *
US-PATENT-CLASS-307-215	c 33	N74-22814 *	US-PATENT-CLASS-307-267	c 33	N75-18479 *	US-PATENT-CLASS-307-88.3	c 09	N72-25258 *
US-PATENT-CLASS-307-216	c 08	N71-18751 *	US-PATENT-CLASS-307-268	c 09	N69-24317 *	US-PATENT-CLASS-307-88.5	c 09	N70-34819 *
US-PATENT-CLASS-307-219	c 35	N75-30504 *	US-PATENT-CLASS-307-269	c 60	N81-15706 *	US-PATENT-CLASS-307-88.5	c 09	N70-40272 *
US-PATENT-CLASS-307-219	c 60	N81-15706 *	US-PATENT-CLASS-307-270	c 33	N78-17296 *	US-PATENT-CLASS-307-88.5	c 09	N71-16175 *
US-PATENT-CLASS-307-220	c 10	N73-26229 *	US-PATENT-CLASS-307-270	c 33	N86-20672 *	US-PATENT-CLASS-307-88.5	c 10	N70-40232 *
US-PATENT-CLASS-307-221R	c 10	N73-20254 *	US-PATENT-CLASS-307-271	c 10	N73-32145 *	US-PATENT-CLASS-307-88.5	c 09	N71-10673 *
US-PATENT-CLASS-307-221R	c 33	N76-14373 *	US-PATENT-CLASS-307-271	c 33	N85-29145 *	US-PATENT-CLASS-307-88.5	c 10	N71-15910 *
US-PATENT-CLASS-307-222	c 09	N69-27463 *	US-PATENT-CLASS-307-272.1	c 33	N92-16196 *	US-PATENT-CLASS-307-88.5	c 10	N71-16042 *

US-PATENT-CLASS-307-88.5

REPORT NUMBER INDEX

US-PATENT-CLASS-307-88.5	c 10	N71-28739 *	US-PATENT-CLASS-310-11	c 03	N70-36803 *	US-PATENT-CLASS-310-90.5	c 70	N91-21824 *
US-PATENT-CLASS-307-88MP	c 09	N72-22197 *	US-PATENT-CLASS-310-11	c 14	N72-22439 *	US-PATENT-CLASS-310-93	c 15	N71-17652 *
US-PATENT-CLASS-307-88	c 08	N70-34743 *	US-PATENT-CLASS-310-11	c 12	N72-25292 *	US-PATENT-CLASS-310-93	c 37	N85-30333 *
US-PATENT-CLASS-308-88	c 09	N70-38604 *	US-PATENT-CLASS-310-11	c 35	N74-21018 *	US-PATENT-CLASS-311-37	c 35	N75-29380 *
US-PATENT-CLASS-307-88	c 09	N71-24803 *	US-PATENT-CLASS-310-11	c 36	N75-32441 *	US-PATENT-CLASS-312-196	c 54	N88-24163 *
US-PATENT-CLASS-307-88	c 09	N71-26000 *	US-PATENT-CLASS-310-11	c 44	N83-28573 *	US-PATENT-CLASS-312-1	c 05	N71-23080 *
US-PATENT-CLASS-307-92	c 09	N72-27227 *	US-PATENT-CLASS-310-11	c 27	N91-14489 *	US-PATENT-CLASS-312-1	c 05	N73-20137 *
US-PATENT-CLASS-307-98	c 33	N79-28415 *	US-PATENT-CLASS-310-12	c 33	N82-24421 *	US-PATENT-CLASS-312-1	c 37	N74-20063 *
US-PATENT-CLASS-308-DIG.1	c 15	N72-17451 *	US-PATENT-CLASS-310-12	c 37	N83-32067 *	US-PATENT-CLASS-312-208	c 54	N88-24163 *
US-PATENT-CLASS-308-DIG.1	c 37	N79-10418 *	US-PATENT-CLASS-310-153	c 44	N78-24608 *	US-PATENT-CLASS-312-209	c 37	N74-18123 *
US-PATENT-CLASS-308-DIG.8	c 24	N79-17916 *	US-PATENT-CLASS-310-154	c 44	N78-24608 *	US-PATENT-CLASS-312-257	c 31	N72-22874 *
US-PATENT-CLASS-308-DIG.9	c 24	N79-17916 *	US-PATENT-CLASS-310-154	c 35	N84-28017 *	US-PATENT-CLASS-312-296	c 09	N71-18600 *
US-PATENT-CLASS-308-10	c 15	N71-22997 *	US-PATENT-CLASS-310-15	c 09	N72-25255 *	US-PATENT-CLASS-312-300	c 54	N88-24163 *
US-PATENT-CLASS-308-10	c 15	N72-33476 *	US-PATENT-CLASS-310-15	c 44	N83-28574 *	US-PATENT-CLASS-312-319	c 37	N79-33467 *
US-PATENT-CLASS-308-10	c 35	N74-18323 *	US-PATENT-CLASS-310-15	c 33	N87-23904 *	US-PATENT-CLASS-312-7.2	c 54	N88-24163 *
US-PATENT-CLASS-308-10	c 37	N75-18574 *	US-PATENT-CLASS-310-168	c 09	N71-25999 *	US-PATENT-CLASS-312-DIG.8	c 28	N73-24783 *
US-PATENT-CLASS-308-10	c 37	N76-18459 *	US-PATENT-CLASS-310-168	c 33	N77-26387 *	US-PATENT-CLASS-313-104	c 14	N73-32317 *
US-PATENT-CLASS-308-10	c 37	N77-17464 *	US-PATENT-CLASS-310-171	c 35	N84-28017 *	US-PATENT-CLASS-313-106	c 24	N83-10117 *
US-PATENT-CLASS-308-10	c 44	N78-24608 *	US-PATENT-CLASS-310-178	c 44	N78-24608 *	US-PATENT-CLASS-313-106	c 70	N84-28565 *
US-PATENT-CLASS-308-10	c 37	N78-27424 *	US-PATENT-CLASS-310-20	c 71	N79-20827 *	US-PATENT-CLASS-313-106	c 31	N86-32587 *
US-PATENT-CLASS-308-10	c 35	N79-26372 *	US-PATENT-CLASS-310-22	c 31	N85-21404 *	US-PATENT-CLASS-313-107	c 24	N83-10117 *
US-PATENT-CLASS-308-10	c 71	N81-15767 *	US-PATENT-CLASS-310-231	c 33	N79-20314 *	US-PATENT-CLASS-313-107	c 70	N84-28565 *
US-PATENT-CLASS-308-10	c 44	N83-28574 *	US-PATENT-CLASS-310-254	c 09	N71-25999 *	US-PATENT-CLASS-313-107	c 31	N86-32587 *
US-PATENT-CLASS-308-10	c 37	N83-32067 *	US-PATENT-CLASS-310-265	c 33	N92-15331 *	US-PATENT-CLASS-313-109.5	c 09	N71-33519 *
US-PATENT-CLASS-308-10	c 37	N83-34323 *	US-PATENT-CLASS-310-269	c 44	N78-24608 *	US-PATENT-CLASS-313-11.5	c 28	N70-39925 *
US-PATENT-CLASS-308-10	c 71	N83-36846 *	US-PATENT-CLASS-310-26	c 71	N79-20827 *	US-PATENT-CLASS-313-110	c 09	N71-12521 *
US-PATENT-CLASS-308-10	c 37	N85-20337 *	US-PATENT-CLASS-310-26	c 33	N92-15331 *	US-PATENT-CLASS-313-131A	c 33	N85-21491 *
US-PATENT-CLASS-308-121	c 37	N74-32921 *	US-PATENT-CLASS-310-2	c 03	N72-23048 *	US-PATENT-CLASS-313-146	c 33	N72-22386 *
US-PATENT-CLASS-308-121	c 37	N75-30562 *	US-PATENT-CLASS-310-300	c 71	N84-23233 *	US-PATENT-CLASS-313-153	c 33	N74-12913 *
US-PATENT-CLASS-308-121	c 37	N79-10418 *	US-PATENT-CLASS-310-306	c 33	N80-18287 *	US-PATENT-CLASS-313-156	c 25	N70-34661 *
US-PATENT-CLASS-308-122	c 37	N76-15461 *	US-PATENT-CLASS-310-306	c 44	N83-32175 *	US-PATENT-CLASS-313-156	c 72	N80-27163 *
US-PATENT-CLASS-308-160	c 37	N76-15461 *	US-PATENT-CLASS-310-306	c 34	N85-29179 *	US-PATENT-CLASS-313-161	c 25	N73-25760 *
US-PATENT-CLASS-308-160	c 37	N76-29588 *	US-PATENT-CLASS-310-306	c 37	N87-23970 *	US-PATENT-CLASS-313-161	c 09	N73-30181 *
US-PATENT-CLASS-308-160	c 37	N79-10418 *	US-PATENT-CLASS-310-308	c 33	N92-22042 *	US-PATENT-CLASS-313-161	c 33	N77-21315 *
US-PATENT-CLASS-308-163	c 37	N76-29588 *	US-PATENT-CLASS-310-309	c 33	N92-22042 *	US-PATENT-CLASS-313-175	c 33	N77-21316 *
US-PATENT-CLASS-308-163	c 37	N79-10418 *	US-PATENT-CLASS-310-30	c 44	N80-29834 *	US-PATENT-CLASS-313-175	c 31	N78-17238 *
US-PATENT-CLASS-308-168	c 24	N79-17916 *	US-PATENT-CLASS-310-30	c 33	N87-23904 *	US-PATENT-CLASS-313-176	c 31	N78-17238 *
US-PATENT-CLASS-308-170	c 15	N71-28465 *	US-PATENT-CLASS-310-311	c 35	N80-20559 *	US-PATENT-CLASS-313-180	c 33	N77-21316 *
US-PATENT-CLASS-308-170	c 37	N76-29588 *	US-PATENT-CLASS-310-317	c 35	N84-22932 *	US-PATENT-CLASS-313-180	c 31	N78-17238 *
US-PATENT-CLASS-308-171	c 24	N79-17916 *	US-PATENT-CLASS-310-319	c 33	N80-23559 *	US-PATENT-CLASS-313-182	c 33	N77-22386 *
US-PATENT-CLASS-308-172	c 37	N79-10418 *	US-PATENT-CLASS-310-322	c 71	N79-20827 *	US-PATENT-CLASS-313-184	c 33	N77-21315 *
US-PATENT-CLASS-308-174	c 54	N75-12616 *	US-PATENT-CLASS-310-323	c 71	N91-14808 *	US-PATENT-CLASS-313-184	c 33	N77-21316 *
US-PATENT-CLASS-308-176	c 15	N71-22982 *	US-PATENT-CLASS-310-324	c 33	N86-20671 *	US-PATENT-CLASS-313-184	c 31	N78-17238 *
US-PATENT-CLASS-308-177	c 15	N71-29136 *	US-PATENT-CLASS-310-325	c 71	N91-14808 *	US-PATENT-CLASS-313-186	c 25	N72-24753 *
US-PATENT-CLASS-308-187	c 15	N71-26189 *	US-PATENT-CLASS-310-326	c 38	N79-14398 *	US-PATENT-CLASS-313-209	c 33	N74-12913 *
US-PATENT-CLASS-308-188	c 15	N73-30458 *	US-PATENT-CLASS-310-327	c 35	N80-20559 *	US-PATENT-CLASS-313-212	c 25	N72-24753 *
US-PATENT-CLASS-308-188	c 37	N74-21064 *	US-PATENT-CLASS-310-330	c 76	N91-14872 *	US-PATENT-CLASS-313-217	c 28	N73-27699 *
US-PATENT-CLASS-308-191	c 37	N74-21064 *	US-PATENT-CLASS-310-331	c 76	N91-14872 *	US-PATENT-CLASS-313-217	c 33	N74-12913 *
US-PATENT-CLASS-308-191	c 37	N75-31446 *	US-PATENT-CLASS-310-332	c 76	N83-34796 *	US-PATENT-CLASS-313-218	c 28	N73-27699 *
US-PATENT-CLASS-308-193	c 15	N73-30458 *	US-PATENT-CLASS-310-334	c 71	N79-20827 *	US-PATENT-CLASS-313-224	c 25	N72-24753 *
US-PATENT-CLASS-308-194	c 37	N79-11404 *	US-PATENT-CLASS-310-334	c 35	N80-20559 *	US-PATENT-CLASS-313-224	c 33	N74-12913 *
US-PATENT-CLASS-308-195	c 15	N72-22490 *	US-PATENT-CLASS-310-334	c 35	N84-22932 *	US-PATENT-CLASS-313-224	c 33	N77-21315 *
US-PATENT-CLASS-308-195	c 37	N75-31446 *	US-PATENT-CLASS-310-334	c 71	N91-14808 *	US-PATENT-CLASS-313-224	c 31	N78-17238 *
US-PATENT-CLASS-308-195	c 37	N77-32500 *	US-PATENT-CLASS-310-336	c 38	N79-14398 *	US-PATENT-CLASS-313-22	c 09	N71-26787 *
US-PATENT-CLASS-308-195	c 37	N77-32501 *	US-PATENT-CLASS-310-338	c 35	N89-14407 *	US-PATENT-CLASS-313-22	c 31	N78-17237 *
US-PATENT-CLASS-308-1	c 31	N71-26537 *	US-PATENT-CLASS-310-339	c 76	N91-14872 *	US-PATENT-CLASS-313-22	c 31	N78-25256 *
US-PATENT-CLASS-308-2A	c 15	N72-26371 *	US-PATENT-CLASS-310-340	c 76	N91-14872 *	US-PATENT-CLASS-313-22	c 34	N79-20336 *
US-PATENT-CLASS-308-2A	c 15	N73-12488 *	US-PATENT-CLASS-310-360	c 35	N80-20559 *	US-PATENT-CLASS-313-230	c 28	N71-28850 *
US-PATENT-CLASS-308-2A	c 37	N84-12492 *	US-PATENT-CLASS-310-366	c 35	N84-22932 *	US-PATENT-CLASS-313-230	c 28	N73-27699 *
US-PATENT-CLASS-308-201	c 37	N75-31446 *	US-PATENT-CLASS-310-4A	c 37	N77-19458 *	US-PATENT-CLASS-313-230	c 20	N77-20162 *
US-PATENT-CLASS-308-2	c 15	N71-23812 *	US-PATENT-CLASS-310-4R	c 33	N74-27683 *	US-PATENT-CLASS-313-231.3	c 20	N77-20162 *
US-PATENT-CLASS-308-35	c 15	N73-32359 *	US-PATENT-CLASS-310-4R	c 73	N77-18891 *	US-PATENT-CLASS-313-231.3	c 75	N78-27913 *
US-PATENT-CLASS-308-5R	c 37	N77-28486 *	US-PATENT-CLASS-310-40	c 20	N75-24837 *	US-PATENT-CLASS-313-231.4	c 20	N77-10148 *
US-PATENT-CLASS-308-5R	c 37	N79-10418 *	US-PATENT-CLASS-310-42	c 14	N72-22439 *	US-PATENT-CLASS-313-231.4	c 72	N80-33186 *
US-PATENT-CLASS-308-5	c 15	N71-10617 *	US-PATENT-CLASS-310-46	c 33	N79-20314 *	US-PATENT-CLASS-313-231	c 06	N69-39889 *
US-PATENT-CLASS-308-5	c 15	N72-11388 *	US-PATENT-CLASS-310-4	c 09	N69-21313 *	US-PATENT-CLASS-313-231	c 09	N71-23190 *
US-PATENT-CLASS-308-5	c 15	N72-17451 *	US-PATENT-CLASS-310-4	c 03	N69-39898 *	US-PATENT-CLASS-313-231	c 09	N71-33519 *
US-PATENT-CLASS-308-72	c 37	N76-15461 *	US-PATENT-CLASS-310-4	c 09	N69-39929 *	US-PATENT-CLASS-313-231	c 25	N72-24753 *
US-PATENT-CLASS-308-72	c 37	N77-32500 *	US-PATENT-CLASS-310-4	c 03	N70-34134 *	US-PATENT-CLASS-313-231	c 25	N72-32688 *
US-PATENT-CLASS-308-72	c 37	N79-11404 *	US-PATENT-CLASS-310-4	c 03	N71-11055 *	US-PATENT-CLASS-313-231	c 28	N73-24783 *
US-PATENT-CLASS-308-73	c 37	N74-21061 *	US-PATENT-CLASS-310-4	c 22	N71-23599 *	US-PATENT-CLASS-313-231	c 25	N73-25760 *
US-PATENT-CLASS-308-73	c 37	N75-30562 *	US-PATENT-CLASS-310-4	c 09	N71-24807 *	US-PATENT-CLASS-313-236	c 09	N71-26182 *
US-PATENT-CLASS-308-73	c 37	N76-15461 *	US-PATENT-CLASS-310-4	c 33	N71-27862 *	US-PATENT-CLASS-313-237	c 09	N71-26182 *
US-PATENT-CLASS-308-73	c 37	N77-28486 *	US-PATENT-CLASS-310-4	c 09	N71-28421 *	US-PATENT-CLASS-313-237	c 33	N87-28832 *
US-PATENT-CLASS-308-78	c 24	N79-17916 *	US-PATENT-CLASS-310-4	c 09	N72-25260 *	US-PATENT-CLASS-313-240	c 20	N77-10148 *
US-PATENT-CLASS-308-87R	c 24	N79-17916 *	US-PATENT-CLASS-310-4	c 09	N72-27228 *	US-PATENT-CLASS-313-250	c 31	N76-31365 *
US-PATENT-CLASS-308-9	c 15	N70-34664 *	US-PATENT-CLASS-310-4	c 20	N75-24837 *	US-PATENT-CLASS-313-271	c 25	N71-20747 *
US-PATENT-CLASS-308-9	c 15	N70-38620 *	US-PATENT-CLASS-310-4	c 36	N75-30524 *	US-PATENT-CLASS-313-278	c 33	N87-28832 *
US-PATENT-CLASS-308-9	c 15	N70-39896 *	US-PATENT-CLASS-310-4	c 44	N76-16612 *	US-PATENT-CLASS-313-306	c 31	N76-31365 *
US-PATENT-CLASS-308-9	c 15	N71-20739 *	US-PATENT-CLASS-310-51	c 15	N71-27169 *	US-PATENT-CLASS-313-309	c 10	N72-27246 *
US-PATENT-CLASS-308-9	c 14	N71-26627 *	US-PATENT-CLASS-310-52	c 20	N75-24837 *	US-PATENT-CLASS-313-309	c 31	N76-31365 *
US-PATENT-CLASS-308-9	c 15	N72-17451 *	US-PATENT-CLASS-310-54	c 09	N71-20446 *	US-PATENT-CLASS-313-311	c 73	N77-18891 *
US-PATENT-CLASS-308-9	c 15	N73-32359 *	US-PATENT-CLASS-310-5	c 03	N70-35408 *	US-PATENT-CLASS-313-32	c 33	N74-12913 *
US-PATENT-CLASS-308-9	c 37	N76-15461 *	US-PATENT-CLASS-310-68B	c 35	N84-28017 *	US-PATENT-CLASS-313-32	c 33	N77-21315 *
US-PATENT-CLASS-308-9	c 37	N77-28486 *	US-PATENT-CLASS-310-68	c 15	N72-25456 *	US-PATENT-CLASS-313-336	c 10	N72-27246 *
US-PATENT-CLASS-308-9	c 37	N79-10418 *	US-PATENT-CLASS-310-77	c 37	N85-30333 *	US-PATENT-CLASS-313-338	c 31	N76-31365 *
US-PATENT-CLASS-31-35	c 31	N85-21404 *	US-PATENT-CLASS-310-8.2	c 35	N76-15432 *	US-PATENT-CLASS-313-348	c 35	N82-24471 *
US-PATENT-CLASS-310-101	c 15	N71-24696 *	US-PATENT-CLASS-310-8.5	c 14	N71-22993 *	US-PATENT-CLASS-313-351	c 10	N72-27246 *
US-PATENT-CLASS-310-10	c 03	N69-39890 *	US-PATENT-CLASS-310-800	c 76	N83-34796 *	US-PATENT-CLASS-313-351	c 70	N84-28565 *
US-PATENT-CLASS-310-10	c 09	N71-23443 *	US-PATENT-CLASS-310-80	c 15	N72-25456 *	US-PATENT-CLASS-313-352	c 09	N71-22987 *
US-PATENT-CLASS-310-10	c 09	N71-24904 *	US-PATENT-CLASS-310-82	c 33	N79-20314 *	US-PATENT-CLASS-313-355	c 28	N73-27699 *
US-PATENT-CLASS-310-10	c 09	N72-25255 *	US-PATENT-CLASS-310-83	c 15	N72-25456 *	US-PATENT-CLASS-313-356	c 14	N72-29464 *
US-PATENT-CLASS-310-10	c 20	N75-24837 *	US-PATENT-CLASS-310-83	c 33	N92-15331 *	US-PATENT-CLASS-313-359.1	c 72	N87-21660 *
US-PATENT-CLASS-310-111	c 33	N77-26387 *	US-PATENT-CLASS-310-9.1	c 15	N71-21311 *	US-PATENT-CLASS-313-35	c 34	N79-20336 *
US-PATENT-CLASS-310-11	c 25	N69-21929 *	US-PATENT-CLASS-310-90.5	c 37	N87-17038 *	US-PATENT-CLASS-313-360	c 20	N77-20162 *
US-PATENT-CLASS-310-11	c 03	N69-39983 *	US-PATENT-CLASS-310-90.5	c 37	N91-21539 *	US-PATENT-CLASS-313-361.1	c 72	N87-21660 *

REPORT NUMBER INDEX

US-PATENT-CLASS-318-231

US-PATENT-CLASS-313-361	c 20	N77-10148 *	US-PATENT-CLASS-315-22	c 33	N78-17293 *	US-PATENT-CLASS-317-234G	c 14	N72-31446 *
US-PATENT-CLASS-313-362.1	c 72	N87-21660 *	US-PATENT-CLASS-315-237	c 33	N83-34189 *	US-PATENT-CLASS-317-234G	c 15	N73-14469 *
US-PATENT-CLASS-313-362	c 72	N80-27163 *	US-PATENT-CLASS-315-241-R	c 33	N88-23942 *	US-PATENT-CLASS-317-234G	c 09	N73-27150 * #
US-PATENT-CLASS-313-362	c 72	N80-33186 *	US-PATENT-CLASS-315-241R	c 37	N79-11405 *	US-PATENT-CLASS-317-234J	c 26	N72-25679 *
US-PATENT-CLASS-313-363	c 72	N80-27163 *	US-PATENT-CLASS-315-241R	c 33	N83-34189 *	US-PATENT-CLASS-317-234L	c 09	N73-27150 * #
US-PATENT-CLASS-313-442	c 74	N78-18905 *	US-PATENT-CLASS-315-241	c 09	N71-13518 *	US-PATENT-CLASS-317-234M	c 09	N73-27150 * #
US-PATENT-CLASS-313-44	c 15	N69-24319 * #	US-PATENT-CLASS-315-248	c 09	N73-30181 *	US-PATENT-CLASS-317-234M	c 33	N74-12951 *
US-PATENT-CLASS-313-502	c 76	N91-21911 *	US-PATENT-CLASS-315-24	c 08	N71-20571 *	US-PATENT-CLASS-317-234N	c 09	N73-27150 * #
US-PATENT-CLASS-313-502	c 74	N91-31950 *	US-PATENT-CLASS-315-254	c 33	N88-23942 *	US-PATENT-CLASS-317-234N	c 33	N74-12951 *
US-PATENT-CLASS-313-503	c 76	N91-21911 *	US-PATENT-CLASS-315-255	c 33	N88-23942 *	US-PATENT-CLASS-317-234R	c 09	N73-27150 * #
US-PATENT-CLASS-313-503	c 74	N91-31950 *	US-PATENT-CLASS-315-258	c 16	N73-32391 *	US-PATENT-CLASS-317-234R	c 33	N74-12951 *
US-PATENT-CLASS-313-505	c 33	N87-28831 *	US-PATENT-CLASS-315-25	c 10	N72-20225 *	US-PATENT-CLASS-317-234V	c 26	N72-21701 *
US-PATENT-CLASS-313-506	c 33	N87-28831 *	US-PATENT-CLASS-315-260	c 33	N80-14330 *	US-PATENT-CLASS-317-234V	c 09	N73-15235 *
US-PATENT-CLASS-313-506	c 76	N91-21911 *	US-PATENT-CLASS-315-26	c 09	N71-23189 *	US-PATENT-CLASS-317-234	c 14	N69-23191 * #
US-PATENT-CLASS-313-506	c 74	N91-31950 *	US-PATENT-CLASS-315-276	c 33	N88-23942 *	US-PATENT-CLASS-317-234	c 09	N69-27422 * #
US-PATENT-CLASS-313-509	c 33	N87-28831 *	US-PATENT-CLASS-315-277	c 33	N88-23942 *	US-PATENT-CLASS-317-234	c 26	N71-18064 *
US-PATENT-CLASS-313-509	c 74	N91-31950 *	US-PATENT-CLASS-315-297	c 14	N72-27411 *	US-PATENT-CLASS-317-235AG	c 09	N73-15235 *
US-PATENT-CLASS-313-60	c 33	N77-22386 *	US-PATENT-CLASS-315-3.5	c 09	N73-13208 *	US-PATENT-CLASS-317-235AJ	c 26	N72-25679 *
US-PATENT-CLASS-313-61S	c 73	N74-26767 *	US-PATENT-CLASS-315-3.5	c 33	N79-10339 *	US-PATENT-CLASS-317-235AJ	c 09	N72-33205 *
US-PATENT-CLASS-313-61S	c 37	N78-13436 *	US-PATENT-CLASS-315-3.5	c 33	N82-26568 *	US-PATENT-CLASS-317-235AM	c 09	N73-19235 *
US-PATENT-CLASS-313-63	c 28	N70-41576 *	US-PATENT-CLASS-315-3.5	c 33	N84-16452 *	US-PATENT-CLASS-317-235A	c 26	N72-25679 *
US-PATENT-CLASS-313-63	c 09	N71-10618 *	US-PATENT-CLASS-315-3.5	c 37	N85-33489 *	US-PATENT-CLASS-317-235A	c 09	N72-33205 *
US-PATENT-CLASS-313-63	c 28	N71-26781 *	US-PATENT-CLASS-315-3.5	c 33	N86-21742 *	US-PATENT-CLASS-317-235H	c 35	N75-13213 *
US-PATENT-CLASS-313-63	c 28	N73-24783 *	US-PATENT-CLASS-315-3.5	c 33	N90-22724 *	US-PATENT-CLASS-317-235K	c 09	N73-15235 *
US-PATENT-CLASS-313-63	c 28	N73-27699 *	US-PATENT-CLASS-315-3.6	c 33	N79-10339 *	US-PATENT-CLASS-317-235M	c 14	N72-31446 *
US-PATENT-CLASS-313-63	c 75	N75-13625 *	US-PATENT-CLASS-315-3.6	c 33	N82-24415 *	US-PATENT-CLASS-317-235N	c 09	N73-19235 *
US-PATENT-CLASS-313-7	c 14	N71-18482 *	US-PATENT-CLASS-315-3.6	c 33	N82-26568 *	US-PATENT-CLASS-317-235N	c 35	N74-15090 *
US-PATENT-CLASS-313-7	c 14	N73-32324 *	US-PATENT-CLASS-315-3.6	c 33	N84-16452 *	US-PATENT-CLASS-317-235R	c 26	N72-21701 *
US-PATENT-CLASS-313-93	c 35	N74-26949 *	US-PATENT-CLASS-315-3.6	c 33	N84-27974 *	US-PATENT-CLASS-317-235R	c 26	N72-25679 *
US-PATENT-CLASS-313-93	c 35	N82-24471 *	US-PATENT-CLASS-315-3.6	c 33	N86-21742 *	US-PATENT-CLASS-317-235R	c 14	N72-31446 *
US-PATENT-CLASS-313-94	c 33	N76-31409 *	US-PATENT-CLASS-315-3OR	c 10	N72-31273 *	US-PATENT-CLASS-317-235R	c 09	N73-19235 *
US-PATENT-CLASS-313-94	c 74	N78-18905 *	US-PATENT-CLASS-315-307	c 14	N72-27411 *	US-PATENT-CLASS-317-235R	c 09	N73-32112 *
US-PATENT-CLASS-314-129	c 15	N69-24266 * #	US-PATENT-CLASS-315-30	c 33	N75-27250 *	US-PATENT-CLASS-317-235T	c 09	N73-19235 *
US-PATENT-CLASS-315-DIG.2	c 16	N73-32391 *	US-PATENT-CLASS-315-310	c 14	N72-27411 *	US-PATENT-CLASS-317-235UA	c 09	N73-19235 *
US-PATENT-CLASS-315-101	c 16	N73-32391 *	US-PATENT-CLASS-315-311	c 14	N72-27411 *	US-PATENT-CLASS-317-235VW	c 09	N73-32112 *
US-PATENT-CLASS-315-108	c 09	N71-33519 *	US-PATENT-CLASS-315-324	c 09	N73-30181 *	US-PATENT-CLASS-317-235	c 09	N69-24318 * #
US-PATENT-CLASS-315-108	c 33	N77-21316 *	US-PATENT-CLASS-315-326	c 25	N72-24753 *	US-PATENT-CLASS-317-235	c 09	N72-33205 *
US-PATENT-CLASS-315-108	c 36	N78-17366 *	US-PATENT-CLASS-315-334	c 33	N80-14330 *	US-PATENT-CLASS-317-238	c 09	N71-27232 *
US-PATENT-CLASS-315-10	c 33	N74-21850 *	US-PATENT-CLASS-315-344	c 33	N77-21315 *	US-PATENT-CLASS-317-245	c 33	N79-21265 *
US-PATENT-CLASS-315-10	c 33	N75-26244 *	US-PATENT-CLASS-315-349	c 09	N72-25250 *	US-PATENT-CLASS-317-246	c 14	N69-21541 * #
US-PATENT-CLASS-315-110	c 33	N77-21316 *	US-PATENT-CLASS-315-356	c 16	N73-32391 *	US-PATENT-CLASS-317-246	c 33	N76-21390 *
US-PATENT-CLASS-315-111.2	c 75	N78-27913 *	US-PATENT-CLASS-315-358	c 25	N72-24753 *	US-PATENT-CLASS-317-246	c 35	N76-22509 *
US-PATENT-CLASS-315-111.31	c 33	N85-21491 *	US-PATENT-CLASS-315-367	c 33	N75-26244 *	US-PATENT-CLASS-317-247	c 14	N72-24477 *
US-PATENT-CLASS-315-111.3	c 20	N77-10148 *	US-PATENT-CLASS-315-369	c 33	N75-26244 *	US-PATENT-CLASS-317-258	c 09	N71-13522 *
US-PATENT-CLASS-315-111.3	c 20	N77-20162 *	US-PATENT-CLASS-315-36	c 10	N72-27246 *	US-PATENT-CLASS-317-258	c 33	N76-15373 *
US-PATENT-CLASS-315-111.41	c 72	N88-24253 *	US-PATENT-CLASS-315-387	c 33	N75-26244 *	US-PATENT-CLASS-317-261	c 26	N72-28761 *
US-PATENT-CLASS-315-111.6	c 75	N76-14931 *	US-PATENT-CLASS-315-39.3	c 33	N84-16452 *	US-PATENT-CLASS-317-261	c 33	N76-15373 *
US-PATENT-CLASS-315-111.6	c 20	N77-20162 *	US-PATENT-CLASS-315-39.3	c 33	N84-27974 *	US-PATENT-CLASS-317-31	c 09	N71-12526 *
US-PATENT-CLASS-315-111.71	c 72	N88-24253 *	US-PATENT-CLASS-315-39.3	c 33	N86-21742 *	US-PATENT-CLASS-317-31	c 10	N71-23543 *
US-PATENT-CLASS-315-111.81	c 33	N85-21491 *	US-PATENT-CLASS-315-3	c 33	N83-11952 *	US-PATENT-CLASS-317-31	c 33	N74-17929 *
US-PATENT-CLASS-315-111.81	c 33	N87-21234 *	US-PATENT-CLASS-315-3	c 33	N90-22724 *	US-PATENT-CLASS-317-31	c 33	N77-14333 *
US-PATENT-CLASS-315-111.81	c 72	N88-24253 *	US-PATENT-CLASS-315-4	c 33	N83-11952 *	US-PATENT-CLASS-317-33SC	c 33	N74-14956 *
US-PATENT-CLASS-315-111	c 25	N70-33267 *	US-PATENT-CLASS-315-5.35	c 33	N74-10195 *	US-PATENT-CLASS-317-33	c 10	N71-26531 *
US-PATENT-CLASS-315-111	c 25	N70-41628 *	US-PATENT-CLASS-315-5.35	c 33	N83-11952 *	US-PATENT-CLASS-317-33	c 09	N71-27001 *
US-PATENT-CLASS-315-111	c 25	N71-15562 *	US-PATENT-CLASS-315-5.38	c 09	N73-13208 *	US-PATENT-CLASS-317-33	c 10	N71-27366 *
US-PATENT-CLASS-315-111	c 24	N71-16213 *	US-PATENT-CLASS-315-5.38	c 33	N74-10195 *	US-PATENT-CLASS-317-33	c 09	N71-29008 *
US-PATENT-CLASS-315-111	c 25	N71-21693 *	US-PATENT-CLASS-315-5.38	c 33	N82-24415 *	US-PATENT-CLASS-317-43	c 33	N74-14956 *
US-PATENT-CLASS-315-111	c 28	N71-26781 *	US-PATENT-CLASS-315-5.38	c 24	N83-10117 *	US-PATENT-CLASS-317-46	c 33	N74-14956 *
US-PATENT-CLASS-315-111	c 25	N71-29184 *	US-PATENT-CLASS-315-5.38	c 33	N83-11952 *	US-PATENT-CLASS-317-47	c 33	N74-14956 *
US-PATENT-CLASS-315-111	c 09	N71-33519 *	US-PATENT-CLASS-315-5.38	c 70	N84-28559 *	US-PATENT-CLASS-317-48	c 33	N74-14956 *
US-PATENT-CLASS-315-111	c 25	N72-24753 *	US-PATENT-CLASS-315-5.38	c 37	N85-33489 *	US-PATENT-CLASS-317-54	c 09	N71-29008 *
US-PATENT-CLASS-315-111	c 25	N72-32688 *	US-PATENT-CLASS-315-5.38	c 31	N86-32587 *	US-PATENT-CLASS-317-60	c 09	N71-29008 *
US-PATENT-CLASS-315-111	c 14	N73-30391 *	US-PATENT-CLASS-315-5	c 33	N83-11952 *	US-PATENT-CLASS-317-9	c 09	N71-22796 *
US-PATENT-CLASS-315-111	c 75	N75-13625 *	US-PATENT-CLASS-317-DIG.3	c 10	N71-26334 *	US-PATENT-CLASS-317-9	c 09	N71-27001 *
US-PATENT-CLASS-315-111	c 33	N75-29318 *	US-PATENT-CLASS-317-DIG.6	c 10	N72-26228 *	US-PATENT-CLASS-318-107	c 44	N87-21410 *
US-PATENT-CLASS-315-111	c 37	N75-29426 *	US-PATENT-CLASS-317-100	c 10	N71-28783 *	US-PATENT-CLASS-318-116	c 71	N79-20827 *
US-PATENT-CLASS-315-11	c 33	N74-21850 *	US-PATENT-CLASS-317-100	c 10	N73-25243 *	US-PATENT-CLASS-318-116	c 71	N84-23233 *
US-PATENT-CLASS-315-12	c 33	N74-21850 *	US-PATENT-CLASS-317-101A	c 09	N72-33205 *	US-PATENT-CLASS-318-116	c 33	N87-28833 *
US-PATENT-CLASS-315-135	c 09	N72-25250 *	US-PATENT-CLASS-317-101A	c 23	N73-13660 *	US-PATENT-CLASS-318-135	c 33	N82-24421 *
US-PATENT-CLASS-315-145	c 33	N80-14330 *	US-PATENT-CLASS-317-101DH	c 15	N72-22486 *	US-PATENT-CLASS-318-135	c 37	N91-21539 *
US-PATENT-CLASS-315-151	c 14	N72-27411 *	US-PATENT-CLASS-317-101DH	c 10	N73-25243 *	US-PATENT-CLASS-318-137	c 33	N75-19524 *
US-PATENT-CLASS-315-153	c 14	N73-16483 *	US-PATENT-CLASS-317-101	c 09	N71-26133 *	US-PATENT-CLASS-318-138	c 09	N71-10677 *
US-PATENT-CLASS-315-153	c 74	N79-12890 *	US-PATENT-CLASS-317-117	c 15	N72-22486 *	US-PATENT-CLASS-318-138	c 14	N71-17585 *
US-PATENT-CLASS-315-156	c 14	N72-27411 *	US-PATENT-CLASS-317-120	c 15	N72-22486 *	US-PATENT-CLASS-318-138	c 10	N71-18772 *
US-PATENT-CLASS-315-158	c 14	N72-27411 *	US-PATENT-CLASS-317-122	c 15	N71-18701 *	US-PATENT-CLASS-318-138	c 09	N71-25999 *
US-PATENT-CLASS-315-160	c 09	N71-12540 *	US-PATENT-CLASS-317-123	c 09	N71-24892 *	US-PATENT-CLASS-318-138	c 33	N77-26386 *
US-PATENT-CLASS-315-169R	c 23	N73-13660 *	US-PATENT-CLASS-317-140	c 09	N70-34502 *	US-PATENT-CLASS-318-138	c 33	N81-20352 * #
US-PATENT-CLASS-315-169R	c 36	N75-19652 *	US-PATENT-CLASS-317-148.5	c 10	N71-23271 *	US-PATENT-CLASS-318-138	c 33	N87-21233 *
US-PATENT-CLASS-315-169TV	c 23	N73-13660 *	US-PATENT-CLASS-317-148.5	c 09	N71-24892 *	US-PATENT-CLASS-318-15	c 37	N80-32716 *
US-PATENT-CLASS-315-172	c 33	N88-24862 *	US-PATENT-CLASS-317-153	c 10	N71-26334 *	US-PATENT-CLASS-318-161	c 44	N87-21410 *
US-PATENT-CLASS-315-173	c 33	N88-24862 *	US-PATENT-CLASS-317-155.5	c 09	N71-29008 *	US-PATENT-CLASS-318-167	c 33	N75-19524 *
US-PATENT-CLASS-315-176	c 33	N77-28385 *	US-PATENT-CLASS-317-157.5	c 15	N69-21472 * #	US-PATENT-CLASS-318-176	c 33	N75-19524 *
US-PATENT-CLASS-315-18	c 32	N74-20813 *	US-PATENT-CLASS-317-158	c 15	N73-28516 *	US-PATENT-CLASS-318-183	c 33	N75-19524 *
US-PATENT-CLASS-315-18	c 33	N75-19517 *	US-PATENT-CLASS-317-158	c 26	N73-28710 *	US-PATENT-CLASS-318-20.105	c 08	N71-27057 *
US-PATENT-CLASS-315-200-R	c 33	N88-23942 *	US-PATENT-CLASS-317-158	c 15	N73-32361 *	US-PATENT-CLASS-318-200	c 33	N78-10376 *
US-PATENT-CLASS-315-208	c 33	N83-34189 *	US-PATENT-CLASS-317-16	c 09	N69-39897 * #	US-PATENT-CLASS-318-227	c 07	N71-33613 *
US-PATENT-CLASS-315-209CD	c 37	N79-11405 *	US-PATENT-CLASS-317-16	c 33	N74-17929 *	US-PATENT-CLASS-318-227	c 33	N75-15874 *
US-PATENT-CLASS-315-209SC	c 37	N79-11405 *	US-PATENT-CLASS-317-20	c 33	N77-10429 *	US-PATENT-CLASS-318-227	c 33	N77-26386 *
US-PATENT-CLASS-315-211	c 33	N74-20859 *	US-PATENT-CLASS-317-20	c 10	N71-26531 *	US-PATENT-CLASS-318-227	c 33	N78-10376 *
US-PATENT-CLASS-315-22R	c 10	N72-31273 *	US-PATENT-CLASS-317-230	c 09	N71-27232 *	US-PATENT-CLASS-318-22	c 15	N71-17694 *
US-PATENT-CLASS-315-224	c 33	N83-34189 *	US-PATENT-CLASS-317-230	c 26	N72-28761 *	US-PATENT-CLASS-318-230	c 07	N71-33613 *
US-PATENT-CLASS-315-225	c 33	N83-34189 *	US-PATENT-CLASS-317-231	c 09	N71-27232 *	US-PATENT-CLASS-318-230	c 10	N73-32145 *
US-PATENT-CLASS-315-227-R	c 33	N88-23942 *	US-PATENT-CLASS-317-234A	c 15	N73-14469 *	US-PATENT-CLASS-318-230	c 33	N75-15874 *
US-PATENT-CLASS-315-228	c 33	N74-20859 *	US-PATENT-CLASS-317-234D	c 14	N72-31446 *	US-PATENT-CLASS-318-230	c 33	N78-10376 *
US-PATENT-CLASS-315-22	c 10	N72-20225 *	US-PATENT-CLASS-317-234E	c 33	N74-12951 *	US-PATENT-CLASS-318-231	c 10	N73-32145 *
US-PATENT-CLASS-315-22	c 32	N74-20813 *	US-PATENT-CLASS-317-234F	c 33	N74-12951 *	US-PATENT-CLASS-318-231	c 33	N75-15874 *

US-PATENT-CLASS-318-254	c 09	N71-25999 *	US-PATENT-CLASS-318-729	c 33	N84-27975 *	US-PATENT-CLASS-321-61	c 09	N71-27364 *
US-PATENT-CLASS-318-254	c 09	N73-32107 *	US-PATENT-CLASS-318-729	c 33	N84-33661 *	US-PATENT-CLASS-321-64	c 09	N71-27364 *
US-PATENT-CLASS-318-254	c 33	N77-26386 *	US-PATENT-CLASS-318-729	c 44	N85-21769 *	US-PATENT-CLASS-321-69	c 10	N71-26414 *
US-PATENT-CLASS-318-254	c 33	N81-20352 *	US-PATENT-CLASS-318-729	c 33	N85-22877 *	US-PATENT-CLASS-321-6R	c 35	N74-18090 *
US-PATENT-CLASS-318-254	c 33	N82-26569 *	US-PATENT-CLASS-318-798	c 33	N83-34190 *	US-PATENT-CLASS-321-9	c 10	N71-25139 *
US-PATENT-CLASS-318-254	c 33	N87-21233 *	US-PATENT-CLASS-318-798	c 33	N83-35227 *	US-PATENT-CLASS-322-2R	c 07	N83-20944 *
US-PATENT-CLASS-318-257	c 10	N71-18724 *	US-PATENT-CLASS-318-798	c 33	N84-14424 *	US-PATENT-CLASS-322-25	c 33	N84-33660 *
US-PATENT-CLASS-318-258	c 09	N71-26092 *	US-PATENT-CLASS-318-798	c 33	N84-22885 *	US-PATENT-CLASS-322-29	c 33	N83-28319 *
US-PATENT-CLASS-318-260	c 09	N70-38712 *	US-PATENT-CLASS-318-799	c 33	N81-27395 *	US-PATENT-CLASS-322-29	c 33	N84-33660 *
US-PATENT-CLASS-318-265	c 15	N71-24895 *	US-PATENT-CLASS-318-799	c 33	N84-16455 *	US-PATENT-CLASS-322-2	c 03	N72-23048 *
US-PATENT-CLASS-318-267	c 37	N77-27400 *	US-PATENT-CLASS-318-800	c 33	N83-31953 *	US-PATENT-CLASS-322-32	c 09	N71-27364 *
US-PATENT-CLASS-318-308	c 11	N72-20244 *	US-PATENT-CLASS-318-802	c 33	N84-33661 *	US-PATENT-CLASS-322-35	c 33	N83-28319 *
US-PATENT-CLASS-318-314	c 10	N71-20448 *	US-PATENT-CLASS-318-803	c 33	N83-10345 *	US-PATENT-CLASS-322-47	c 33	N83-28319 *
US-PATENT-CLASS-318-314	c 09	N75-24758 *	US-PATENT-CLASS-318-803	c 33	N83-31953 *	US-PATENT-CLASS-322-47	c 33	N84-33660 *
US-PATENT-CLASS-318-317	c 09	N71-28886 *	US-PATENT-CLASS-318-805	c 33	N84-22885 *	US-PATENT-CLASS-322-95	c 33	N83-28319 *
US-PATENT-CLASS-318-318	c 09	N71-24805 *	US-PATENT-CLASS-318-806	c 33	N82-26569 *	US-PATENT-CLASS-322-95	c 33	N84-33660 *
US-PATENT-CLASS-318-318	c 09	N75-24758 *	US-PATENT-CLASS-318-806	c 33	N83-34190 *	US-PATENT-CLASS-322-96	c 33	N77-26387 *
US-PATENT-CLASS-318-318	c 09	N75-24758 *	US-PATENT-CLASS-318-806	c 33	N83-35227 *	US-PATENT-CLASS-323-DIG.1	c 09	N72-21243 *
US-PATENT-CLASS-318-318	c 09	N75-24758 *	US-PATENT-CLASS-318-806	c 33	N84-14424 *	US-PATENT-CLASS-323-DIG.1	c 09	N72-25249 *
US-PATENT-CLASS-318-318	c 15	N71-28952 *	US-PATENT-CLASS-318-809	c 33	N83-31953 *	US-PATENT-CLASS-323-DIG.1	c 33	N74-11049 *
US-PATENT-CLASS-318-327	c 11	N72-20244 *	US-PATENT-CLASS-318-809	c 33	N84-27975 *	US-PATENT-CLASS-323-DIG.1	c 33	N77-10428 *
US-PATENT-CLASS-318-328	c 09	N73-32107 *	US-PATENT-CLASS-318-810	c 33	N81-27395 *	US-PATENT-CLASS-323-106	c 33	N74-22885 *
US-PATENT-CLASS-318-331	c 09	N71-28886 *	US-PATENT-CLASS-318-810	c 33	N84-22885 *	US-PATENT-CLASS-323-122	c 33	N74-22885 *
US-PATENT-CLASS-318-341	c 10	N73-32145 *	US-PATENT-CLASS-318-812	c 33	N82-26569 *	US-PATENT-CLASS-323-128	c 33	N74-22885 *
US-PATENT-CLASS-318-341	c 09	N75-24758 *	US-PATENT-CLASS-318-812	c 33	N84-22886 *	US-PATENT-CLASS-323-15	c 20	N79-20179 *
US-PATENT-CLASS-318-345	c 09	N71-28886 *	US-PATENT-CLASS-318-812	c 33	N85-22877 *	US-PATENT-CLASS-323-15	c 44	N80-14472 *
US-PATENT-CLASS-318-376	c 10	N71-16030 *	US-PATENT-CLASS-318-830	c 33	N82-26569 *	US-PATENT-CLASS-323-17	c 09	N72-25249 *
US-PATENT-CLASS-318-376	c 11	N72-20244 *	US-PATENT-CLASS-318-8	c 37	N86-27629 *	US-PATENT-CLASS-323-17	c 33	N77-10428 *
US-PATENT-CLASS-318-382	c 15	N71-24695 *	US-PATENT-CLASS-32-28	c 05	N73-27062 *	US-PATENT-CLASS-323-18	c 33	N78-17295 *
US-PATENT-CLASS-318-434	c 33	N90-21951 *	US-PATENT-CLASS-32-58	c 05	N73-27062 *	US-PATENT-CLASS-323-19	c 08	N73-31226 *
US-PATENT-CLASS-318-438	c 33	N84-22885 *	US-PATENT-CLASS-320-13	c 03	N71-29129 *	US-PATENT-CLASS-323-19	c 33	N78-17296 *
US-PATENT-CLASS-318-439	c 33	N81-20352 *	US-PATENT-CLASS-320-13	c 03	N71-29129 *	US-PATENT-CLASS-323-19	c 33	N78-17296 *
US-PATENT-CLASS-318-439	c 33	N87-21233 *	US-PATENT-CLASS-320-15	c 44	N78-14625 *	US-PATENT-CLASS-323-20	c 14	N71-27407 *
US-PATENT-CLASS-318-468	c 37	N77-27400 *	US-PATENT-CLASS-320-15	c 44	N78-25531 *	US-PATENT-CLASS-323-20	c 20	N79-20179 *
US-PATENT-CLASS-318-46	c 44	N85-21769 *	US-PATENT-CLASS-320-17	c 03	N71-24605 *	US-PATENT-CLASS-323-22T	c 09	N72-21243 *
US-PATENT-CLASS-318-470	c 37	N77-27400 *	US-PATENT-CLASS-320-18	c 44	N78-14625 *	US-PATENT-CLASS-323-22T	c 09	N72-25249 *
US-PATENT-CLASS-318-489	c 02	N73-19004 *	US-PATENT-CLASS-320-21	c 44	N76-18643 *	US-PATENT-CLASS-323-22T	c 33	N77-10428 *
US-PATENT-CLASS-318-48	c 37	N86-27629 *	US-PATENT-CLASS-320-22	c 44	N76-18643 *	US-PATENT-CLASS-323-22T	c 33	N79-23345 *
US-PATENT-CLASS-318-504	c 09	N71-28886 *	US-PATENT-CLASS-320-23	c 03	N71-19438 *	US-PATENT-CLASS-323-22	c 09	N71-21449 *
US-PATENT-CLASS-318-561	c 33	N82-18493 *	US-PATENT-CLASS-320-2	c 44	N77-14581 *	US-PATENT-CLASS-323-22	c 09	N71-23316 *
US-PATENT-CLASS-318-561	c 33	N90-21951 *	US-PATENT-CLASS-320-32	c 44	N78-25531 *	US-PATENT-CLASS-323-23	c 33	N77-10428 *
US-PATENT-CLASS-318-561	c 37	N91-21544 *	US-PATENT-CLASS-320-39	c 03	N71-24719 *	US-PATENT-CLASS-323-243	c 33	N84-16455 *
US-PATENT-CLASS-318-564	c 60	N82-29013 *	US-PATENT-CLASS-320-39	c 44	N78-25531 *	US-PATENT-CLASS-323-246	c 33	N84-16455 *
US-PATENT-CLASS-318-568.11	c 63	N91-31885 *	US-PATENT-CLASS-320-40	c 44	N78-14625 *	US-PATENT-CLASS-323-269	c 33	N83-27126 *
US-PATENT-CLASS-318-568.16	c 33	N91-21542 *	US-PATENT-CLASS-320-48	c 03	N72-25020 *	US-PATENT-CLASS-323-300	c 33	N84-27975 *
US-PATENT-CLASS-318-568.20	c 37	N91-21542 *	US-PATENT-CLASS-320-51	c 33	N91-14537 *	US-PATENT-CLASS-323-303	c 33	N83-27126 *
US-PATENT-CLASS-318-568.21	c 37	N91-21542 *	US-PATENT-CLASS-320-53	c 33	N78-17296 *	US-PATENT-CLASS-323-311	c 33	N91-27479 *
US-PATENT-CLASS-318-568.2	c 33	N91-31528 *	US-PATENT-CLASS-320-6	c 44	N78-14625 *	US-PATENT-CLASS-323-312	c 33	N91-27479 *
US-PATENT-CLASS-318-571	c 10	N71-27136 *	US-PATENT-CLASS-320-9	c 44	N78-25531 *	US-PATENT-CLASS-323-350	c 33	N83-27126 *
US-PATENT-CLASS-318-573	c 35	N79-14348 *	US-PATENT-CLASS-321-1.5	c 09	N73-32109 *	US-PATENT-CLASS-323-354	c 33	N90-19492 *
US-PATENT-CLASS-318-573	c 33	N91-31528 *	US-PATENT-CLASS-321-10	c 09	N72-17154 *	US-PATENT-CLASS-323-38	c 09	N72-21243 *
US-PATENT-CLASS-318-573	c 63	N91-31885 *	US-PATENT-CLASS-321-11	c 09	N69-39984 *	US-PATENT-CLASS-323-44F	c 33	N79-17133 *
US-PATENT-CLASS-318-576	c 09	N72-21246 *	US-PATENT-CLASS-321-11	c 09	N72-25252 *	US-PATENT-CLASS-323-48	c 09	N71-27053 *
US-PATENT-CLASS-318-577	c 37	N86-21850 *	US-PATENT-CLASS-321-11	c 10	N73-26228 *	US-PATENT-CLASS-323-48	c 09	N72-25262 *
US-PATENT-CLASS-318-580	c 08	N74-10942 *	US-PATENT-CLASS-321-12	c 10	N71-27366 *	US-PATENT-CLASS-323-4	c 33	N78-17294 *
US-PATENT-CLASS-318-580	c 04	N82-23231 *	US-PATENT-CLASS-321-13	c 33	N77-14333 *	US-PATENT-CLASS-323-56	c 10	N71-22961 *
US-PATENT-CLASS-318-584	c 08	N81-24106 *	US-PATENT-CLASS-321-14	c 09	N72-22196 *	US-PATENT-CLASS-323-56	c 09	N71-24893 *
US-PATENT-CLASS-318-584	c 08	N86-27288 *	US-PATENT-CLASS-321-15	c 09	N72-22203 *	US-PATENT-CLASS-323-56	c 09	N72-22196 *
US-PATENT-CLASS-318-585	c 08	N79-23097 *	US-PATENT-CLASS-321-15	c 33	N75-19522 *	US-PATENT-CLASS-323-60	c 09	N71-27053 *
US-PATENT-CLASS-318-587	c 35	N84-33769 *	US-PATENT-CLASS-321-18	c 09	N72-22203 *	US-PATENT-CLASS-323-82	c 09	N72-25262 *
US-PATENT-CLASS-318-594	c 35	N79-14348 *	US-PATENT-CLASS-321-18	c 09	N72-25251 *	US-PATENT-CLASS-323-89C	c 09	N72-22196 *
US-PATENT-CLASS-318-599	c 10	N71-24861 *	US-PATENT-CLASS-321-18	c 09	N72-25252 *	US-PATENT-CLASS-323-8	c 10	N71-10578 *
US-PATENT-CLASS-318-602	c 33	N74-29556 *	US-PATENT-CLASS-321-18	c 33	N74-11049 *	US-PATENT-CLASS-323-901	c 33	N84-33663 *
US-PATENT-CLASS-318-603	c 33	N74-29556 *	US-PATENT-CLASS-321-19	c 09	N72-22196 *	US-PATENT-CLASS-323-903	c 33	N90-20320 *
US-PATENT-CLASS-318-605	c 31	N86-29055 *	US-PATENT-CLASS-321-19	c 09	N72-25252 *	US-PATENT-CLASS-323-93	c 33	N77-31404 *
US-PATENT-CLASS-318-608	c 33	N75-13139 *	US-PATENT-CLASS-321-19	c 33	N77-10428 *	US-PATENT-CLASS-324-5R	c 16	N73-13489 *
US-PATENT-CLASS-318-611	c 37	N85-30333 *	US-PATENT-CLASS-321-25	c 09	N72-22196 *	US-PATENT-CLASS-324-5	c 14	N71-20428 *
US-PATENT-CLASS-318-615	c 33	N90-21951 *	US-PATENT-CLASS-321-2	c 03	N69-21330 *	US-PATENT-CLASS-324-DIG.1	c 33	N75-19520 *
US-PATENT-CLASS-318-616	c 08	N79-23097 *	US-PATENT-CLASS-321-2	c 03	N69-25146 *	US-PATENT-CLASS-324-DIG.1	c 33	N75-25041 *
US-PATENT-CLASS-318-618	c 33	N90-21951 *	US-PATENT-CLASS-321-2	c 03	N71-12255 *	US-PATENT-CLASS-324-0.5	c 14	N71-26137 *
US-PATENT-CLASS-318-620	c 33	N82-18493 *	US-PATENT-CLASS-321-2	c 09	N71-23188 *	US-PATENT-CLASS-324-0.5	c 14	N71-26266 *
US-PATENT-CLASS-318-621	c 33	N82-18493 *	US-PATENT-CLASS-321-2	c 03	N71-23239 *	US-PATENT-CLASS-324-0.5	c 36	N79-14362 *
US-PATENT-CLASS-318-622	c 33	N82-18493 *	US-PATENT-CLASS-321-2	c 10	N71-26085 *	US-PATENT-CLASS-324-102	c 09	N72-11225 *
US-PATENT-CLASS-318-628	c 08	N74-10942 *	US-PATENT-CLASS-321-2	c 09	N72-22196 *	US-PATENT-CLASS-324-102	c 33	N74-17930 *
US-PATENT-CLASS-318-628	c 37	N91-21544 *	US-PATENT-CLASS-321-2	c 09	N72-22203 *	US-PATENT-CLASS-324-102	c 33	N75-19521 *
US-PATENT-CLASS-318-632	c 37	N86-27629 *	US-PATENT-CLASS-321-2	c 03	N72-23048 *	US-PATENT-CLASS-324-102	c 33	N79-11315 *
US-PATENT-CLASS-318-636	c 31	N86-29055 *	US-PATENT-CLASS-321-2	c 09	N72-25249 *	US-PATENT-CLASS-324-102	c 33	N79-14305 *
US-PATENT-CLASS-318-640	c 33	N75-13139 *	US-PATENT-CLASS-321-2	c 09	N72-25251 *	US-PATENT-CLASS-324-103	c 10	N71-27338 *
US-PATENT-CLASS-318-640	c 54	N75-27758 *	US-PATENT-CLASS-321-2	c 09	N72-25252 *	US-PATENT-CLASS-324-106	c 14	N70-38602 *
US-PATENT-CLASS-318-640	c 35	N79-14348 *	US-PATENT-CLASS-321-2	c 09	N72-25253 *	US-PATENT-CLASS-324-106	c 08	N71-29138 *
US-PATENT-CLASS-318-640	c 37	N81-27519 *	US-PATENT-CLASS-321-2	c 09	N72-25254 *	US-PATENT-CLASS-324-107	c 10	N71-27338 *
US-PATENT-CLASS-318-640	c 08	N86-27288 *	US-PATENT-CLASS-321-2	c 33	N74-11049 *	US-PATENT-CLASS-324-112	c 33	N79-14305 *
US-PATENT-CLASS-318-646	c 37	N91-21544 *	US-PATENT-CLASS-321-2	c 33	N77-10428 *	US-PATENT-CLASS-324-113	c 09	N70-41655 *
US-PATENT-CLASS-318-648	c 33	N91-21544 *	US-PATENT-CLASS-321-45C	c 10	N73-26228 *	US-PATENT-CLASS-324-113	c 33	N75-19521 *
US-PATENT-CLASS-318-649	c 37	N75-13139 *	US-PATENT-CLASS-321-45ER	c 09	N72-25252 *	US-PATENT-CLASS-324-113	c 33	N79-11315 *
US-PATENT-CLASS-318-653	c 10	N71-27136 *	US-PATENT-CLASS-321-45R	c 09	N72-25252 *	US-PATENT-CLASS-324-113	c 33	N79-14305 *
US-PATENT-CLASS-318-661	c 31	N86-29055 *	US-PATENT-CLASS-321-45R	c 09	N72-25254 *	US-PATENT-CLASS-324-115	c 14	N71-26244 *
US-PATENT-CLASS-318-663	c 37	N81-33483 *	US-PATENT-CLASS-321-45S	c 33	N74-22864 *	US-PATENT-CLASS-324-115	c 10	N72-20222 *
US-PATENT-CLASS-318-663	c 37	N86-27629 *	US-PATENT-CLASS-321-45S	c 33	N74-11049 *	US-PATENT-CLASS-324-117	c 17	N91-14371 *
US-PATENT-CLASS-318-664	c 33	N74-29556 *	US-PATENT-CLASS-321-45	c 09	N71-24800 *	US-PATENT-CLASS-324-117	c 14	N71-23037 *
US-PATENT-CLASS-318-675	c 33	N75-13139 *	US-PATENT-CLASS-321-45	c 09	N72-22203 *	US-PATENT-CLASS-324-117	c 33	N89-29681 *
US-PATENT-CLASS-318-675	c 37	N77-27400 *	US-PATENT-CLASS-321-47	c 09	N71-33109 *	US-PATENT-CLASS-324-118	c 33	N74-17930 *
US-PATENT-CLASS-318-685	c 33	N83-35227 *	US-PATENT-CLASS-321-47	c 09	N72-25253 *	US-PATENT-CLASS-324-119	c 09	N72-11225 *
US-PATENT-CLASS-318-729	c 33	N83-34190 *	US-PATENT-CLASS-321-48	c 12	N71-20896 *	US-PATENT-CLASS-324-120	c 14	N71-19431 *
US-PATENT-CLASS-318-729	c 33	N84-14424 *	US-PATENT-CLASS-321-5	c 08	N71-18752 *	US-PATENT-CLASS-324-120	c 09	N71-23021 *
US-PATENT-CLASS-318-729	c 33	N84-22885 *	US-PATENT-CLASS-321-60	c 14	N71-23174 *	US-PATENT-CLASS-324-123C	c 33	N79-22373 *
US-PATENT-CLASS-318-729	c 33	N84-22886 *						

REPORT NUMBER INDEX

US-PATENT-CLASS-325-446

US-PATENT-CLASS-324-123R	c 09	N72-11225 *	US-PATENT-CLASS-324-57R	c 35	N74-18090 *	US-PATENT-CLASS-324-83Q	c 33	N75-26243 *
US-PATENT-CLASS-324-127	c 33	N79-18193 *	US-PATENT-CLASS-324-57R	c 33	N79-10338 *	US-PATENT-CLASS-324-83R	c 33	N84-16454 *
US-PATENT-CLASS-324-127	c 33	N89-29681 *	US-PATENT-CLASS-324-57R	c 35	N79-14349 *	US-PATENT-CLASS-324-85	c 10	N72-20224 *
US-PATENT-CLASS-324-130	c 35	N78-28411 *	US-PATENT-CLASS-324-57SS	c 33	N78-25319 *	US-PATENT-CLASS-324-85	c 33	N79-10338 *
US-PATENT-CLASS-324-132	c 09	N71-13530 *	US-PATENT-CLASS-324-57	c 10	N71-16057 *	US-PATENT-CLASS-324-92	c 26	N72-25680 *
US-PATENT-CLASS-324-132	c 10	N72-20222 *	US-PATENT-CLASS-324-57	c 09	N71-20569 *	US-PATENT-CLASS-324-95	c 10	N71-12554 *
US-PATENT-CLASS-324-133	c 10	N71-27338 *	US-PATENT-CLASS-324-58.5A	c 33	N75-26245 *	US-PATENT-CLASS-324-95	c 14	N73-30388 *
US-PATENT-CLASS-324-133	c 33	N79-10337 *	US-PATENT-CLASS-324-58.5B	c 43	N78-10529 *	US-PATENT-CLASS-324-96	c 26	N72-25680 *
US-PATENT-CLASS-324-133	c 33	N79-11315 *	US-PATENT-CLASS-324-58.5C	c 33	N75-26245 *	US-PATENT-CLASS-324-96	c 33	N79-10337 *
US-PATENT-CLASS-324-133	c 33	N79-14305 *	US-PATENT-CLASS-324-58.5	c 15	N71-17822 *	US-PATENT-CLASS-324-99D	c 33	N79-22373 *
US-PATENT-CLASS-324-133	c 33	N79-18193 *	US-PATENT-CLASS-324-58.5	c 25	N71-20563 *	US-PATENT-CLASS-325-10	c 07	N72-12081 *
US-PATENT-CLASS-324-158-D	c 33	N87-22894 *	US-PATENT-CLASS-324-58.5	c 14	N71-26137 *	US-PATENT-CLASS-325-113	c 07	N71-24840 *
US-PATENT-CLASS-324-158-R	c 33	N87-22894 *	US-PATENT-CLASS-324-58.5	c 18	N71-27397 *	US-PATENT-CLASS-325-113	c 07	N73-25160 *
US-PATENT-CLASS-324-158D	c 15	N72-25457 *	US-PATENT-CLASS-324-58A	c 33	N78-25319 *	US-PATENT-CLASS-325-113	c 52	N74-26625 *
US-PATENT-CLASS-324-158D	c 76	N76-20994 *	US-PATENT-CLASS-324-59	c 35	N77-32455 *	US-PATENT-CLASS-325-114	c 07	N72-25171 *
US-PATENT-CLASS-324-158D	c 44	N80-18551 *	US-PATENT-CLASS-324-59	c 14	N71-28991 *	US-PATENT-CLASS-325-114	c 03	N76-32140 *
US-PATENT-CLASS-324-158D	c 76	N84-35112 *	US-PATENT-CLASS-324-60C	c 35	N75-12270 *	US-PATENT-CLASS-325-115	c 03	N76-32140 *
US-PATENT-CLASS-324-158D	c 76	N85-30923 *	US-PATENT-CLASS-324-60C	c 76	N76-20994 *	US-PATENT-CLASS-325-118	c 17	N78-17140 *
US-PATENT-CLASS-324-158F	c 33	N91-14552 *	US-PATENT-CLASS-324-601	c 33	N91-14552 *	US-PATENT-CLASS-325-12	c 07	N73-20174 *
US-PATENT-CLASS-324-158P	c 33	N91-14552 *	US-PATENT-CLASS-324-60	c 33	N77-31404 *	US-PATENT-CLASS-325-139	c 07	N73-25160 *
US-PATENT-CLASS-324-158R	c 76	N76-20994 *	US-PATENT-CLASS-324-61-R	c 35	N87-22953 *	US-PATENT-CLASS-325-13	c 07	N72-12081 *
US-PATENT-CLASS-324-158R	c 33	N85-30187 *	US-PATENT-CLASS-324-61-R	c 35	N88-29149 *	US-PATENT-CLASS-325-141	c 07	N72-25173 *
US-PATENT-CLASS-324-158T	c 15	N72-25457 *	US-PATENT-CLASS-324-61R	c 14	N72-24477 *	US-PATENT-CLASS-325-141	c 52	N74-26625 *
US-PATENT-CLASS-324-158T	c 35	N75-12270 *	US-PATENT-CLASS-324-61R	c 35	N76-22509 *	US-PATENT-CLASS-325-143	c 05	N71-12342 *
US-PATENT-CLASS-324-158T	c 76	N76-20994 *	US-PATENT-CLASS-324-61	c 14	N69-39785 *	US-PATENT-CLASS-325-145	c 32	N77-14292 *
US-PATENT-CLASS-324-158T	c 33	N80-14332 *	US-PATENT-CLASS-324-61	c 14	N70-36618 *	US-PATENT-CLASS-325-148	c 32	N74-19790 *
US-PATENT-CLASS-324-158T	c 76	N84-35112 *	US-PATENT-CLASS-324-61	c 14	N71-10797 *	US-PATENT-CLASS-325-14	c 17	N76-21250 *
US-PATENT-CLASS-324-158	c 09	N69-21926 *	US-PATENT-CLASS-324-61	c 18	N71-27397 *	US-PATENT-CLASS-325-14	c 32	N80-20448 *
US-PATENT-CLASS-324-163	c 35	N77-30436 *	US-PATENT-CLASS-324-61	c 14	N72-22442 *	US-PATENT-CLASS-325-151.11	c 08	N71-27057 *
US-PATENT-CLASS-324-165	c 35	N77-30436 *	US-PATENT-CLASS-324-62R	c 14	N73-30388 *	US-PATENT-CLASS-325-159	c 33	N78-32340 *
US-PATENT-CLASS-324-173	c 35	N78-32396 *	US-PATENT-CLASS-324-62	c 33	N80-32650 *	US-PATENT-CLASS-325-163	c 07	N71-23405 *
US-PATENT-CLASS-324-174	c 35	N77-30436 *	US-PATENT-CLASS-324-62	c 33	N90-19492 *	US-PATENT-CLASS-325-16	c 07	N71-27056 *
US-PATENT-CLASS-324-181	c 09	N71-24717 *	US-PATENT-CLASS-324-64	c 15	N72-21464 *	US-PATENT-CLASS-325-17	c 07	N73-20174 *
US-PATENT-CLASS-324-186	c 09	N72-25257 *	US-PATENT-CLASS-324-64	c 33	N80-32650 *	US-PATENT-CLASS-325-185	c 07	N71-28430 *
US-PATENT-CLASS-324-186	c 52	N74-12778 *	US-PATENT-CLASS-324-65-P	c 35	N85-34373 *	US-PATENT-CLASS-325-186	c 03	N76-32140 *
US-PATENT-CLASS-324-20R	c 09	N72-23172 *	US-PATENT-CLASS-324-65P	c 14	N73-20478 *	US-PATENT-CLASS-325-187	c 33	N78-32340 *
US-PATENT-CLASS-324-20R	c 44	N79-12541 *	US-PATENT-CLASS-324-65R	c 15	N72-23497 *	US-PATENT-CLASS-325-23	c 07	N71-27056 *
US-PATENT-CLASS-324-207	c 35	N78-32396 *	US-PATENT-CLASS-324-65R	c 33	N85-30187 *	US-PATENT-CLASS-325-29	c 09	N72-22022 *
US-PATENT-CLASS-324-209	c 26	N90-21170 *	US-PATENT-CLASS-324-65	c 14	N71-27186 *	US-PATENT-CLASS-325-302	c 07	N72-25173 *
US-PATENT-CLASS-324-226	c 35	N86-32698 *	US-PATENT-CLASS-324-66	c 05	N72-16015 *	US-PATENT-CLASS-325-304	c 32	N76-14321 *
US-PATENT-CLASS-324-226	c 26	N90-21170 *	US-PATENT-CLASS-324-70	c 14	N70-41332 *	US-PATENT-CLASS-325-305	c 07	N71-10775 *
US-PATENT-CLASS-324-227	c 26	N90-21170 *	US-PATENT-CLASS-324-70	c 14	N71-22990 *	US-PATENT-CLASS-325-305	c 10	N71-20841 *
US-PATENT-CLASS-324-22	c 44	N79-12541 *	US-PATENT-CLASS-324-70	c 10	N71-24863 *	US-PATENT-CLASS-325-305	c 07	N71-23098 *
US-PATENT-CLASS-324-234	c 27	N90-23544 *	US-PATENT-CLASS-324-71.3	c 72	N84-28575 *	US-PATENT-CLASS-325-305	c 32	N80-18253 *
US-PATENT-CLASS-324-235	c 26	N90-21170 *	US-PATENT-CLASS-324-71.5	c 76	N85-30923 *	US-PATENT-CLASS-325-306	c 32	N76-14321 *
US-PATENT-CLASS-324-236	c 27	N90-23544 *	US-PATENT-CLASS-324-71CP	c 35	N76-22509 *	US-PATENT-CLASS-325-307	c 32	N80-18253 *
US-PATENT-CLASS-324-238	c 35	N86-32698 *	US-PATENT-CLASS-324-71CP	c 35	N82-11431 *	US-PATENT-CLASS-325-30	c 32	N74-26654 *
US-PATENT-CLASS-324-239	c 26	N90-21170 *	US-PATENT-CLASS-324-71R	c 09	N72-21246 *	US-PATENT-CLASS-325-30	c 32	N75-24981 *
US-PATENT-CLASS-324-240	c 35	N86-32698 *	US-PATENT-CLASS-324-71R	c 15	N72-21464 *	US-PATENT-CLASS-325-30	c 32	N77-30308 *
US-PATENT-CLASS-324-249	c 35	N78-32397 *	US-PATENT-CLASS-324-71	c 09	N71-24843 *	US-PATENT-CLASS-325-31	c 07	N71-20791 *
US-PATENT-CLASS-324-250	c 35	N84-12444 *	US-PATENT-CLASS-324-72.5	c 44	N74-27519 *	US-PATENT-CLASS-325-320	c 33	N74-12887 *
US-PATENT-CLASS-324-262	c 35	N84-22928 *	US-PATENT-CLASS-324-72.5	c 72	N84-28575 *	US-PATENT-CLASS-325-320	c 32	N74-20809 *
US-PATENT-CLASS-324-262	c 35	N86-32698 *	US-PATENT-CLASS-324-72	c 10	N71-19421 *	US-PATENT-CLASS-325-320	c 32	N74-20811 *
US-PATENT-CLASS-324-29.5	c 03	N72-25020 *	US-PATENT-CLASS-324-72	c 14	N71-23699 *	US-PATENT-CLASS-325-320	c 33	N74-27705 *
US-PATENT-CLASS-324-29.5	c 14	N73-30388 *	US-PATENT-CLASS-324-72	c 07	N73-20175 *	US-PATENT-CLASS-325-321	c 03	N72-20140 *
US-PATENT-CLASS-324-29.5	c 44	N74-27519 *	US-PATENT-CLASS-324-72	c 14	N73-32318 *	US-PATENT-CLASS-325-321	c 32	N74-20810 *
US-PATENT-CLASS-324-30B	c 33	N76-19339 *	US-PATENT-CLASS-324-72	c 33	N74-27862 *	US-PATENT-CLASS-325-321	c 32	N76-16249 *
US-PATENT-CLASS-324-30R	c 14	N73-20478 *	US-PATENT-CLASS-324-72	c 33	N75-26246 *	US-PATENT-CLASS-325-323	c 32	N77-10392 *
US-PATENT-CLASS-324-329	c 35	N90-22023 *	US-PATENT-CLASS-324-72	c 33	N77-10429 *	US-PATENT-CLASS-325-325	c 07	N71-24613 *
US-PATENT-CLASS-324-32	c 14	N71-16014 *	US-PATENT-CLASS-324-72	c 33	N79-10337 *	US-PATENT-CLASS-325-325	c 07	N72-25173 *
US-PATENT-CLASS-324-32	c 33	N75-18477 *	US-PATENT-CLASS-324-72	c 33	N79-14305 *	US-PATENT-CLASS-325-325	c 07	N73-13149 *
US-PATENT-CLASS-324-32	c 33	N75-19522 *	US-PATENT-CLASS-324-72	c 47	N82-24779 *	US-PATENT-CLASS-325-346	c 10	N73-16205 *
US-PATENT-CLASS-324-32	c 35	N78-28411 *	US-PATENT-CLASS-324-73AT	c 08	N72-22166 *	US-PATENT-CLASS-325-346	c 32	N74-30523 *
US-PATENT-CLASS-324-33	c 25	N69-39884 *	US-PATENT-CLASS-324-73AT	c 33	N81-26359 *	US-PATENT-CLASS-325-346	c 32	N77-24331 *
US-PATENT-CLASS-324-33	c 14	N70-35666 *	US-PATENT-CLASS-324-73R	c 33	N83-18996 *	US-PATENT-CLASS-325-347	c 07	N71-33696 *
US-PATENT-CLASS-324-33	c 24	N71-20518 *	US-PATENT-CLASS-324-73	c 14	N71-28991 *	US-PATENT-CLASS-325-348	c 07	N71-33696 *
US-PATENT-CLASS-324-33	c 14	N71-21090 *	US-PATENT-CLASS-324-74	c 35	N78-28411 *	US-PATENT-CLASS-325-349	c 32	N77-10392 *
US-PATENT-CLASS-324-33	c 14	N71-27090 *	US-PATENT-CLASS-324-77-E	c 33	N89-14385 *	US-PATENT-CLASS-325-363	c 07	N71-11267 *
US-PATENT-CLASS-324-34FL	c 35	N74-21018 *	US-PATENT-CLASS-324-77-R	c 33	N89-14385 *	US-PATENT-CLASS-325-363	c 14	N71-26774 *
US-PATENT-CLASS-324-34R	c 26	N76-18257 *	US-PATENT-CLASS-324-77B	c 60	N75-13539 *	US-PATENT-CLASS-325-363	c 14	N72-28437 *
US-PATENT-CLASS-324-34	c 25	N71-16073 *	US-PATENT-CLASS-324-77B	c 32	N79-10262 *	US-PATENT-CLASS-325-363	c 10	N73-25241 *
US-PATENT-CLASS-324-404	c 44	N80-18551 *	US-PATENT-CLASS-324-77C	c 32	N79-10262 *	US-PATENT-CLASS-325-363	c 35	N80-18359 *
US-PATENT-CLASS-324-40	c 38	N74-15395 *	US-PATENT-CLASS-324-77G	c 08	N72-20177 *	US-PATENT-CLASS-325-369	c 07	N71-27056 *
US-PATENT-CLASS-324-41	c 10	N72-28240 *	US-PATENT-CLASS-324-77H	c 35	N75-21582 *	US-PATENT-CLASS-325-372	c 32	N76-14321 *
US-PATENT-CLASS-324-427	c 35	N85-21596 *	US-PATENT-CLASS-324-77K	c 35	N79-10391 *	US-PATENT-CLASS-325-373	c 07	N72-33146 *
US-PATENT-CLASS-324-43R	c 35	N76-16390 *	US-PATENT-CLASS-324-77R	c 10	N73-25240 *	US-PATENT-CLASS-325-38B	c 35	N74-17885 *
US-PATENT-CLASS-324-43	c 14	N69-27423 *	US-PATENT-CLASS-324-77R	c 47	N82-24779 *	US-PATENT-CLASS-325-38	c 07	N72-20140 *
US-PATENT-CLASS-324-43	c 09	N70-40123 *	US-PATENT-CLASS-324-77	c 09	N71-10659 *	US-PATENT-CLASS-325-38	c 07	N72-25173 *
US-PATENT-CLASS-324-43	c 14	N71-15962 *	US-PATENT-CLASS-324-77	c 07	N71-24622 *	US-PATENT-CLASS-325-39	c 07	N72-11149 *
US-PATENT-CLASS-324-43	c 14	N71-26135 *	US-PATENT-CLASS-324-78-D	c 33	N89-14385 *	US-PATENT-CLASS-325-40	c 07	N73-26118 *
US-PATENT-CLASS-324-43	c 14	N71-27325 *	US-PATENT-CLASS-324-78-F	c 33	N89-14385 *	US-PATENT-CLASS-325-419	c 10	N73-16205 *
US-PATENT-CLASS-324-457	c 72	N84-28575 *	US-PATENT-CLASS-324-78D	c 09	N72-25257 *	US-PATENT-CLASS-325-419	c 07	N73-28012 *
US-PATENT-CLASS-324-466	c 33	N83-31954 *	US-PATENT-CLASS-324-78D	c 52	N74-12778 *	US-PATENT-CLASS-325-419	c 32	N74-20810 *
US-PATENT-CLASS-324-51	c 33	N80-26599 *	US-PATENT-CLASS-324-78D	c 32	N90-17005 *	US-PATENT-CLASS-325-419	c 32	N74-20811 *
US-PATENT-CLASS-324-51	c 33	N81-26359 *	US-PATENT-CLASS-324-78E	c 14	N73-24473 *	US-PATENT-CLASS-325-419	c 32	N80-18253 *
US-PATENT-CLASS-324-51	c 33	N82-24420 *	US-PATENT-CLASS-324-78J	c 10	N73-25240 *	US-PATENT-CLASS-325-41	c 10	N71-26577 *
US-PATENT-CLASS-324-52	c 14	N72-17325 *	US-PATENT-CLASS-324-78J	c 33	N75-19515 *	US-PATENT-CLASS-325-41	c 32	N77-12240 *
US-PATENT-CLASS-324-52	c 14	N73-28486 *	US-PATENT-CLASS-324-78Z	c 32	N90-17005 *	US-PATENT-CLASS-325-41	c 32	N79-10263 *
US-PATENT-CLASS-324-52	c 33	N79-18193 *	US-PATENT-CLASS-324-79D	c 14	N73-30388 *	US-PATENT-CLASS-325-420	c 07	N73-30113 *
US-PATENT-CLASS-324-52	c 33	N82-24420 *	US-PATENT-CLASS-324-79D	c 33	N76-16331 *	US-PATENT-CLASS-325-422	c 07	N73-30113 *
US-PATENT-CLASS-324-54	c 33	N75-18477 *	US-PATENT-CLASS-324-79R	c 14	N72-27408 *	US-PATENT-CLASS-325-423	c 32	N71-20809 *
US-PATENT-CLASS-324-57OE	c 33	N78-25319 *	US-PATENT-CLASS-324-79R	c 33	N84-16454 *	US-PATENT-CLASS-325-42	c 07	N71-11266 *
US-PATENT-CLASS-324-57H	c 35	N77-32455 *	US-PATENT-CLASS-324-83A	c 10	N72-20224 *	US-PATENT-CLASS-325-42	c 32	N76-21366 *
US-PATENT-CLASS-324-57PS	c 35	N75-21582 *	US-PATENT-CLASS-324-83A	c 33	N84-16454 *	US-PATENT-CLASS-325-42	c 32	N77-30308 *
US-PATENT-CLASS-324-57R	c 15	N72-21464 *	US-PATENT-CLASS-324-83D	c 33	N79-10338 *	US-PATENT-CLASS-325-445	c 07	N72-20141 *
US-PATENT-CLASS-324-57R	c 14	N73-30388 *	US-PATENT-CLASS-324-83Q	c 35	N74-21017 *	US-PATENT-CLASS-325-446	c 09	N69-24324 *

US-PATENT-CLASS-325-45

US-PATENT-CLASS-325-45 c 07 N73-25160 *
US-PATENT-CLASS-325-473 c 07 N71-33696 *
US-PATENT-CLASS-325-473 c 10 N73-12244 *
US-PATENT-CLASS-325-473 c 32 N77-30308 *
US-PATENT-CLASS-325-476 c 32 N77-10392 *
US-PATENT-CLASS-325-478 c 07 N71-33696 *
US-PATENT-CLASS-325-480 c 07 N71-33696 *
US-PATENT-CLASS-325-480 c 10 N73-12244 *
US-PATENT-CLASS-325-482 c 07 N71-33696 *
US-PATENT-CLASS-325-492 c 09 N72-17153 *
US-PATENT-CLASS-325-492 c 09 N72-22202 *
US-PATENT-CLASS-325-4 c 07 N71-16088 *
US-PATENT-CLASS-325-4 c 07 N71-19773 *
US-PATENT-CLASS-325-4 c 07 N71-24621 *
US-PATENT-CLASS-325-4 c 07 N72-11149 *
US-PATENT-CLASS-325-4 c 07 N72-12080 *
US-PATENT-CLASS-325-4 c 07 N72-20140 *
US-PATENT-CLASS-325-4 c 07 N72-25171 *
US-PATENT-CLASS-325-4 c 07 N73-20174 *
US-PATENT-CLASS-325-4 c 15 N75-13007 *
US-PATENT-CLASS-325-4 c 32 N75-26195 *
US-PATENT-CLASS-325-4 c 32 N77-20289 *
US-PATENT-CLASS-325-4 c 32 N79-11265 *
US-PATENT-CLASS-325-4 c 32 N80-20448 *
US-PATENT-CLASS-325-51 c 07 N72-25173 *
US-PATENT-CLASS-325-55 c 07 N72-25173 *
US-PATENT-CLASS-325-58 c 07 N72-11149 *
US-PATENT-CLASS-325-58 c 07 N72-20140 *
US-PATENT-CLASS-325-58 c 07 N72-25173 *
US-PATENT-CLASS-325-58 c 32 N78-15323 *
US-PATENT-CLASS-325-58 c 32 N79-20296 *
US-PATENT-CLASS-325-5 c 07 N73-20174 *
US-PATENT-CLASS-325-60 c 08 N71-19763 *
US-PATENT-CLASS-325-60 c 07 N73-16121 *
US-PATENT-CLASS-325-60 c 32 N75-24981 *
US-PATENT-CLASS-325-61 c 07 N73-25160 *
US-PATENT-CLASS-325-62 c 08 N72-25208 *
US-PATENT-CLASS-325-62 c 44 N74-19870 *
US-PATENT-CLASS-325-63 c 10 N71-19467 *
US-PATENT-CLASS-325-63 c 07 N73-20174 *
US-PATENT-CLASS-325-63 c 32 N78-15323 *
US-PATENT-CLASS-325-63 c 32 N79-20296 *
US-PATENT-CLASS-325-64 c 07 N72-25173 *
US-PATENT-CLASS-325-65 c 07 N70-41331 *
US-PATENT-CLASS-325-65 c 07 N70-41372 *
US-PATENT-CLASS-325-65 c 07 N71-11284 *
US-PATENT-CLASS-325-65 c 32 N77-30308 *
US-PATENT-CLASS-325-66 c 17 N78-17140 *
US-PATENT-CLASS-325-67 c 07 N71-26292 *
US-PATENT-CLASS-325-67 c 10 N73-25241 *
US-PATENT-CLASS-325-67 c 35 N75-21582 *
US-PATENT-CLASS-325-67 c 32 N79-11265 *
US-PATENT-CLASS-325-7 c 07 N73-20174 *
US-PATENT-CLASS-325-8 c 07 N73-20174 *
US-PATENT-CLASS-325-8 c 32 N80-20448 *
US-PATENT-CLASS-325-9 c 07 N73-20174 *
US-PATENT-CLASS-325-9 c 32 N80-20448 *
US-PATENT-CLASS-328-104 c 08 N72-22162 *
US-PATENT-CLASS-328-104 c 10 N73-13235 *
US-PATENT-CLASS-328-106 c 09 N72-22201 *
US-PATENT-CLASS-328-110 c 09 N71-12519 *
US-PATENT-CLASS-328-111 c 60 N77-12721 *
US-PATENT-CLASS-328-115 c 33 N75-18479 *
US-PATENT-CLASS-328-116 c 09 N69-39885 * #
US-PATENT-CLASS-328-120 c 09 N71-27016 *
US-PATENT-CLASS-328-123 c 60 N74-12888 *
US-PATENT-CLASS-328-129 c 14 N73-30386 *
US-PATENT-CLASS-328-129 c 09 N71-24596 *
US-PATENT-CLASS-328-133 c 10 N72-20224 *
US-PATENT-CLASS-328-133 c 33 N75-26243 *
US-PATENT-CLASS-328-133 c 33 N77-13315 *
US-PATENT-CLASS-328-133 c 33 N79-11313 *
US-PATENT-CLASS-328-133 c 33 N84-16454 *
US-PATENT-CLASS-328-134 c 08 N71-18692 *
US-PATENT-CLASS-328-134 c 14 N73-30386 *
US-PATENT-CLASS-328-134 c 33 N76-16331 *
US-PATENT-CLASS-328-134 c 33 N81-17349 *
US-PATENT-CLASS-328-136 c 09 N72-25257 *
US-PATENT-CLASS-328-140 c 09 N72-25257 *
US-PATENT-CLASS-328-142 c 09 N72-21245 *
US-PATENT-CLASS-328-145 c 32 N76-14321 *
US-PATENT-CLASS-328-145 c 09 N72-23173 *
US-PATENT-CLASS-328-145 c 33 N78-32339 *
US-PATENT-CLASS-328-147 c 33 N87-21235 *
US-PATENT-CLASS-328-150 c 33 N78-18308 *
US-PATENT-CLASS-328-151 c 09 N72-22200 *
US-PATENT-CLASS-328-151 c 33 N75-18479 *
US-PATENT-CLASS-328-151 c 33 N81-27396 *
US-PATENT-CLASS-328-151 c 33 N91-14550 *
US-PATENT-CLASS-328-154 c 08 N72-22162 *
US-PATENT-CLASS-328-154 c 10 N73-13235 *
US-PATENT-CLASS-328-154 c 33 N74-22814 *
US-PATENT-CLASS-328-155 c 10 N72-16172 *
US-PATENT-CLASS-328-155 c 09 N72-33204 *
US-PATENT-CLASS-328-155 c 33 N74-17927 *
US-PATENT-CLASS-328-155 c 17 N76-22245 *

US-PATENT-CLASS-328-155 c 32 N88-29076 *
US-PATENT-CLASS-328-160 c 32 N74-19788 *
US-PATENT-CLASS-328-161 c 33 N77-17354 *
US-PATENT-CLASS-328-163 c 33 N79-10338 *
US-PATENT-CLASS-328-164 c 07 N71-33696 *
US-PATENT-CLASS-328-164 c 33 N87-21235 *
US-PATENT-CLASS-328-165 c 09 N71-24806 *
US-PATENT-CLASS-328-165 c 07 N71-33696 *
US-PATENT-CLASS-328-166 c 10 N72-20223 *
US-PATENT-CLASS-328-166 c 33 N82-29539 *
US-PATENT-CLASS-328-167 c 10 N71-22986 *
US-PATENT-CLASS-328-167 c 08 N71-29034 *
US-PATENT-CLASS-328-167 c 10 N72-17171 *
US-PATENT-CLASS-328-167 c 09 N72-21245 *
US-PATENT-CLASS-328-167 c 09 N73-20231 *
US-PATENT-CLASS-328-167 c 08 N73-26175 *
US-PATENT-CLASS-328-167 c 33 N82-24417 *
US-PATENT-CLASS-328-167 c 33 N85-29145 *
US-PATENT-CLASS-328-168 c 32 N74-19788 *
US-PATENT-CLASS-328-16 c 10 N72-20223 *
US-PATENT-CLASS-328-171 c 10 N71-24844 *
US-PATENT-CLASS-328-172 c 32 N74-19788 *
US-PATENT-CLASS-328-172 c 33 N78-17294 *
US-PATENT-CLASS-328-186 c 09 N72-17157 *
US-PATENT-CLASS-328-187 c 10 N73-20254 *
US-PATENT-CLASS-328-189 c 14 N72-27408 *
US-PATENT-CLASS-328-190 c 33 N76-14371 *
US-PATENT-CLASS-328-192 c 60 N81-15706 *
US-PATENT-CLASS-328-1 c 23 N71-16099 *
US-PATENT-CLASS-328-1 c 10 N71-19472 *
US-PATENT-CLASS-328-1 c 09 N72-22200 *
US-PATENT-CLASS-328-207 c 09 N71-28468 *
US-PATENT-CLASS-328-207 c 10 N71-28860 *
US-PATENT-CLASS-328-207 c 09 N71-29139 *
US-PATENT-CLASS-328-207 c 10 N72-20221 *
US-PATENT-CLASS-328-20 c 10 N72-20223 *
US-PATENT-CLASS-328-230 c 35 N84-12444 *
US-PATENT-CLASS-328-233 c 10 N71-22962 *
US-PATENT-CLASS-328-233 c 75 N75-13625 *
US-PATENT-CLASS-328-233 c 37 N78-17386 *
US-PATENT-CLASS-328-24 c 09 N72-33204 *
US-PATENT-CLASS-328-28 c 33 N87-21235 *
US-PATENT-CLASS-328-37 c 08 N71-12503 *
US-PATENT-CLASS-328-37 c 10 N73-20254 *
US-PATENT-CLASS-328-37 c 33 N76-14373 *
US-PATENT-CLASS-328-37 c 33 N81-17349 *
US-PATENT-CLASS-328-38 c 10 N72-20223 *
US-PATENT-CLASS-328-38 c 33 N77-24375 *
US-PATENT-CLASS-328-39 c 33 N77-24375 *
US-PATENT-CLASS-328-48 c 33 N77-24375 *
US-PATENT-CLASS-328-41 c 33 N75-13130 *
US-PATENT-CLASS-328-42 c 08 N71-19432 *
US-PATENT-CLASS-328-44 c 08 N71-29034 *
US-PATENT-CLASS-328-48 c 14 N73-30386 *
US-PATENT-CLASS-328-48 c 33 N74-10223 *
US-PATENT-CLASS-328-48 c 60 N81-15706 *
US-PATENT-CLASS-328-49 c 10 N71-27137 *
US-PATENT-CLASS-328-55 c 33 N81-17349 *
US-PATENT-CLASS-328-58 c 08 N71-29138 *
US-PATENT-CLASS-328-58 c 33 N74-32711 *
US-PATENT-CLASS-328-58 c 33 N75-18479 *
US-PATENT-CLASS-328-59 c 33 N75-19515 *
US-PATENT-CLASS-328-61 c 09 N71-23525 *
US-PATENT-CLASS-328-61 c 10 N73-20254 *
US-PATENT-CLASS-328-61 c 35 N75-30504 *
US-PATENT-CLASS-328-62 c 35 N75-30504 *
US-PATENT-CLASS-328-63 c 33 N76-14371 *
US-PATENT-CLASS-328-63 c 33 N77-24375 *
US-PATENT-CLASS-328-67 c 10 N71-28960 *
US-PATENT-CLASS-328-67 c 33 N82-24418 *
US-PATENT-CLASS-328-67 c 33 N88-24862 *
US-PATENT-CLASS-328-71 c 60 N81-15706 *
US-PATENT-CLASS-328-92 c 10 N71-28860 *
US-PATENT-CLASS-329-104 c 07 N71-11282 *
US-PATENT-CLASS-329-104 c 33 N74-12887 *
US-PATENT-CLASS-329-104 c 32 N77-24331 *
US-PATENT-CLASS-329-107 c 35 N81-19427 *
US-PATENT-CLASS-329-107 c 32 N87-21207 *
US-PATENT-CLASS-329-119 c 33 N77-21314 *
US-PATENT-CLASS-329-120 c 07 N73-30113 *
US-PATENT-CLASS-329-122 c 10 N71-19469 *
US-PATENT-CLASS-329-122 c 07 N73-28012 *
US-PATENT-CLASS-329-122 c 33 N74-12887 *
US-PATENT-CLASS-329-122 c 32 N74-20811 *
US-PATENT-CLASS-329-122 c 33 N77-14334 *
US-PATENT-CLASS-329-122 c 32 N77-24331 *
US-PATENT-CLASS-329-122 c 32 N79-14267 *
US-PATENT-CLASS-329-122 c 33 N81-33405 *
US-PATENT-CLASS-329-124 c 33 N77-14334 *
US-PATENT-CLASS-329-124 c 33 N78-32338 *
US-PATENT-CLASS-329-124 c 32 N84-27952 *
US-PATENT-CLASS-329-126 c 33 N74-12887 *
US-PATENT-CLASS-329-140 c 07 N71-24583 *
US-PATENT-CLASS-329-145 c 07 N71-33696 *
US-PATENT-CLASS-329-161 c 07 N72-20141 *
US-PATENT-CLASS-329-162 c 07 N72-20141 *

US-PATENT-CLASS-329-166 c 33 N75-19520 *
US-PATENT-CLASS-329-166 c 33 N75-25041 *
US-PATENT-CLASS-329-204 c 33 N75-19520 *
US-PATENT-CLASS-329-204 c 33 N75-25041 *
US-PATENT-CLASS-329-205 c 33 N77-21314 *
US-PATENT-CLASS-329-304 c 32 N91-25318 *
US-PATENT-CLASS-329-304 c 32 N91-27439 *
US-PATENT-CLASS-329-306 c 04 N91-14321 *
US-PATENT-CLASS-329-310 c 32 N92-21712 *
US-PATENT-CLASS-329-349 c 33 N91-26438 *
US-PATENT-CLASS-329-361 c 33 N91-26438 *
US-PATENT-CLASS-329-363 c 33 N91-14550 *
US-PATENT-CLASS-329-50 c 33 N74-17930 *
US-PATENT-CLASS-329-50 c 35 N81-19427 *
US-PATENT-CLASS-33.BUB c 27 N81-15104 *
US-PATENT-CLASS-33.DIG.13 c 35 N75-12273 *
US-PATENT-CLASS-33.DIG.3 c 04 N84-14132 *
US-PATENT-CLASS-33-1G c 37 N72-21554 *
US-PATENT-CLASS-33-1M c 35 N74-32877 *
US-PATENT-CLASS-33-1N c 43 N79-26439 *
US-PATENT-CLASS-33-1Q c 43 N79-26439 *
US-PATENT-CLASS-33-1SA c 14 N72-28436 *
US-PATENT-CLASS-33-1SA c 19 N74-21015 *
US-PATENT-CLASS-33-10 c 35 N92-22039 *
US-PATENT-CLASS-33-125R c 52 N80-27072 *
US-PATENT-CLASS-33-125 c 14 N72-11364 *
US-PATENT-CLASS-33-143C c 52 N82-22875 *
US-PATENT-CLASS-33-147D c 37 N88-14361 *
US-PATENT-CLASS-33-147 c 15 N71-19489 *
US-PATENT-CLASS-33-148D c 35 N75-19615 *
US-PATENT-CLASS-33-149 c 14 N71-17657 *
US-PATENT-CLASS-33-15A c 08 N72-11172 *
US-PATENT-CLASS-33-15D c 35 N92-22039 *
US-PATENT-CLASS-33-155R c 33 N76-19338 *
US-PATENT-CLASS-33-169F c 35 N84-28018 *
US-PATENT-CLASS-33-174B c 37 N76-21554 *
US-PATENT-CLASS-33-174D c 33 N76-19338 *
US-PATENT-CLASS-33-174L c 43 N79-26439 *
US-PATENT-CLASS-33-174S c 14 N72-22445 *
US-PATENT-CLASS-33-174 c 14 N69-21363 * #
US-PATENT-CLASS-33-174 c 14 N71-17658 *
US-PATENT-CLASS-33-174 c 14 N71-24693 *
US-PATENT-CLASS-33-180R c 35 N75-12273 *
US-PATENT-CLASS-33-189 c 15 N71-26145 *
US-PATENT-CLASS-33-19.2 c 35 N92-10186 *
US-PATENT-CLASS-33-1 c 14 N70-36907 *
US-PATENT-CLASS-33-204C c 08 N72-11172 *
US-PATENT-CLASS-33-207 c 15 N71-15571 *
US-PATENT-CLASS-33-23.02 c 35 N92-10186 *
US-PATENT-CLASS-33-23R c 35 N74-32877 *
US-PATENT-CLASS-33-261 c 35 N91-14591 *
US-PATENT-CLASS-33-263 c 09 N91-14356 *
US-PATENT-CLASS-33-268 c 89 N74-30886 *
US-PATENT-CLASS-33-285 c 36 N74-21091 *
US-PATENT-CLASS-33-286 c 18 N76-14186 *
US-PATENT-CLASS-33-293 c 35 N84-16523 *
US-PATENT-CLASS-33-31 c 14 N71-21079 *
US-PATENT-CLASS-33-322 c 06 N83-33882 *
US-PATENT-CLASS-33-348 c 04 N84-14132 *
US-PATENT-CLASS-33-356 c 04 N76-20114 *
US-PATENT-CLASS-33-356 c 04 N77-19056 *
US-PATENT-CLASS-33-356 c 04 N84-14132 *
US-PATENT-CLASS-33-361 c 04 N84-14132 *
US-PATENT-CLASS-33-366 c 35 N78-32395 *
US-PATENT-CLASS-33-46R c 19 N74-21015 *
US-PATENT-CLASS-33-520 c 35 N92-22039 *
US-PATENT-CLASS-33-536 c 37 N89-28831 *
US-PATENT-CLASS-33-644 c 35 N92-22039 *
US-PATENT-CLASS-33-72 c 15 N72-11386 *
US-PATENT-CLASS-33-75R c 14 N72-28436 *
US-PATENT-CLASS-33-96 c 33 N75-30430 *
US-PATENT-CLASS-330-103 c 32 N74-22096 *
US-PATENT-CLASS-330-107 c 10 N72-11256 *
US-PATENT-CLASS-330-107 c 10 N72-17172 *
US-PATENT-CLASS-330-107 c 33 N84-14421 *
US-PATENT-CLASS-330-107 c 33 N87-22895 *
US-PATENT-CLASS-330-109 c 10 N72-11256 *
US-PATENT-CLASS-330-109 c 10 N72-17171 *
US-PATENT-CLASS-330-109 c 10 N72-17172 *
US-PATENT-CLASS-330-109 c 09 N73-20231 *
US-PATENT-CLASS-330-109 c 33 N82-24417 *
US-PATENT-CLASS-330-109 c 33 N84-14421 *
US-PATENT-CLASS-330-109 c 33 N84-22887 *
US-PATENT-CLASS-330-10 c 33 N74-14939 *
US-PATENT-CLASS-330-110 c 33 N83-36356 *
US-PATENT-CLASS-330-11 c 09 N71-13531 *
US-PATENT-CLASS-330-11 c 10 N71-33129 *
US-PATENT-CLASS-330-11 c 09 N72-17156 *
US-PATENT-CLASS-330-124 c 07 N71-28430 *
US-PATENT-CLASS-330-12 c 10 N72-33230 *
US-PATENT-CLASS-330-13 c 10 N71-26415 *
US-PATENT-CLASS-330-13 c 33 N75-30428 *
US-PATENT-CLASS-330-14 c 09 N70-35440 *
US-PATENT-CLASS-330-14 c 33 N77-14335 *
US-PATENT-CLASS-330-16 c 10 N71-33129 *
US-PATENT-CLASS-330-176 c 10 N72-17171 *

REPORT NUMBER INDEX

REPORT NUMBER INDEX

US-PATENT-CLASS-332-7.5

US-PATENT-CLASS-330-18	c 09	N72-17155 *	US-PATENT-CLASS-331-DIG.2	c 33	N81-33405 *	US-PATENT-CLASS-331-82	c 33	N84-27974 *
US-PATENT-CLASS-330-18	c 33	N75-30428 *	US-PATENT-CLASS-331-1-A	c 33	N86-20668 *	US-PATENT-CLASS-331-82	c 33	N90-22724 *
US-PATENT-CLASS-330-200	c 07	N71-28430 *	US-PATENT-CLASS-331-1A	c 33	N74-10194 *	US-PATENT-CLASS-331-90	c 09	N73-15235 *
US-PATENT-CLASS-330-207A	c 33	N75-30429 *	US-PATENT-CLASS-331-1A	c 33	N75-25040 *	US-PATENT-CLASS-331-94.1	c 33	N85-29143 *
US-PATENT-CLASS-330-20	c 09	N73-20232 *	US-PATENT-CLASS-331-1A	c 33	N79-11313 *	US-PATENT-CLASS-331-94.1	c 33	N88-26596 *
US-PATENT-CLASS-330-22	c 09	N71-10798 *	US-PATENT-CLASS-331-107A	c 71	N77-26919 *	US-PATENT-CLASS-331-94.5A	c 16	N73-33397 *
US-PATENT-CLASS-330-22	c 09	N73-20232 *	US-PATENT-CLASS-331-107G	c 26	N72-25679 *	US-PATENT-CLASS-331-94.5A	c 36	N75-27364 *
US-PATENT-CLASS-330-24	c 10	N71-33129 *	US-PATENT-CLASS-331-107G	c 09	N73-15235 *	US-PATENT-CLASS-331-94.5C	c 36	N75-31427 *
US-PATENT-CLASS-330-24	c 33	N75-30429 *	US-PATENT-CLASS-331-107	c 09	N71-18721 *	US-PATENT-CLASS-331-94.5C	c 36	N76-18428 *
US-PATENT-CLASS-330-258	c 33	N86-20670 *	US-PATENT-CLASS-331-107	c 26	N72-21701 *	US-PATENT-CLASS-331-94.5C	c 36	N76-24553 *
US-PATENT-CLASS-330-261	c 33	N86-20670 *	US-PATENT-CLASS-331-108A	c 33	N74-20862 *	US-PATENT-CLASS-331-94.5C	c 36	N76-29575 *
US-PATENT-CLASS-330-26	c 10	N72-17172 *	US-PATENT-CLASS-331-108D	c 33	N86-32624 *	US-PATENT-CLASS-331-94.5C	c 36	N80-14384 *
US-PATENT-CLASS-330-27R	c 10	N72-31273 *	US-PATENT-CLASS-331-109	c 10	N71-27271 *	US-PATENT-CLASS-331-94.5C	c 36	N82-13415 *
US-PATENT-CLASS-330-277	c 33	N84-22887 *	US-PATENT-CLASS-331-109	c 33	N74-26732 *	US-PATENT-CLASS-331-94.5D	c 33	N74-20859 *
US-PATENT-CLASS-330-282	c 33	N83-36356 *	US-PATENT-CLASS-331-109	c 07	N72-11150 *	US-PATENT-CLASS-331-94.5D	c 36	N77-19416 *
US-PATENT-CLASS-330-289	c 33	N83-34191 *	US-PATENT-CLASS-331-111	c 10	N71-23669 *	US-PATENT-CLASS-331-94.5D	c 36	N77-25502 *
US-PATENT-CLASS-330-289	c 33	N84-16454 *	US-PATENT-CLASS-331-111	c 09	N72-21247 *	US-PATENT-CLASS-331-94.5D	c 35	N77-27366 *
US-PATENT-CLASS-330-28	c 33	N74-21851 *	US-PATENT-CLASS-331-113A	c 09	N72-25253 *	US-PATENT-CLASS-331-94.5D	c 36	N82-13415 *
US-PATENT-CLASS-330-28	c 33	N77-14335 *	US-PATENT-CLASS-331-113A	c 09	N72-25254 *	US-PATENT-CLASS-331-94.5G	c 36	N75-31426 *
US-PATENT-CLASS-330-290	c 33	N82-24417 *	US-PATENT-CLASS-331-113A	c 33	N74-11049 *	US-PATENT-CLASS-331-94.5G	c 36	N77-19416 *
US-PATENT-CLASS-330-294	c 33	N82-24417 *	US-PATENT-CLASS-331-113R	c 33	N82-18494 *	US-PATENT-CLASS-331-94.5G	c 36	N78-17366 *
US-PATENT-CLASS-330-294	c 33	N84-22887 *	US-PATENT-CLASS-331-113	c 09	N70-38995 *	US-PATENT-CLASS-331-94.5G	c 36	N78-27402 *
US-PATENT-CLASS-330-294	c 33	N87-22895 *	US-PATENT-CLASS-331-113	c 10	N71-19418 *	US-PATENT-CLASS-331-94.5G	c 36	N79-18307 *
US-PATENT-CLASS-330-29	c 09	N69-24330 *	US-PATENT-CLASS-331-113	c 09	N71-19470 *	US-PATENT-CLASS-331-94.5G	c 33	N82-24418 *
US-PATENT-CLASS-330-29	c 10	N72-28241 *	US-PATENT-CLASS-331-113	c 10	N71-25882 *	US-PATENT-CLASS-331-94.5K	c 36	N74-15145 *
US-PATENT-CLASS-330-2	c 09	N69-39986 *	US-PATENT-CLASS-331-113	c 10	N71-25950 *	US-PATENT-CLASS-331-94.5L	c 72	N79-13826 *
US-PATENT-CLASS-330-2	c 09	N72-25250 *	US-PATENT-CLASS-331-113	c 09	N71-28810 *	US-PATENT-CLASS-331-94.5M	c 36	N75-19654 *
US-PATENT-CLASS-330-2	c 33	N78-10375 *	US-PATENT-CLASS-331-114	c 33	N77-17351 *	US-PATENT-CLASS-331-94.5PE	c 36	N75-32441 *
US-PATENT-CLASS-330-2	c 33	N79-22373 *	US-PATENT-CLASS-331-115	c 10	N72-33230 *	US-PATENT-CLASS-331-94.5PE	c 36	N77-19416 *
US-PATENT-CLASS-330-30D	c 10	N72-20221 *	US-PATENT-CLASS-331-115	c 33	N74-20862 *	US-PATENT-CLASS-331-94.5PE	c 36	N78-27402 *
US-PATENT-CLASS-330-30D	c 09	N73-20232 *	US-PATENT-CLASS-331-116-FE	c 33	N86-19515 *	US-PATENT-CLASS-331-94.5PE	c 72	N79-13826 *
US-PATENT-CLASS-330-302	c 33	N85-29145 *	US-PATENT-CLASS-331-116-R	c 33	N87-21232 *	US-PATENT-CLASS-331-94.5PE	c 33	N82-24418 *
US-PATENT-CLASS-330-306	c 33	N82-24417 *	US-PATENT-CLASS-331-116FE	c 33	N90-23635 *	US-PATENT-CLASS-331-94.5P	c 36	N75-19655 *
US-PATENT-CLASS-330-306	c 33	N85-29145 *	US-PATENT-CLASS-331-116R	c 10	N72-33230 *	US-PATENT-CLASS-331-94.5P	c 36	N75-31426 *
US-PATENT-CLASS-330-30	c 09	N71-19466 *	US-PATENT-CLASS-331-116R	c 33	N74-20862 *	US-PATENT-CLASS-331-94.5P	c 36	N77-25502 *
US-PATENT-CLASS-330-30	c 09	N71-19516 *	US-PATENT-CLASS-331-116R	c 33	N86-32624 *	US-PATENT-CLASS-331-94.5P	c 36	N78-27402 *
US-PATENT-CLASS-330-30	c 09	N71-27016 *	US-PATENT-CLASS-331-117-FE	c 33	N86-19515 *	US-PATENT-CLASS-331-94.5P	c 72	N79-13826 *
US-PATENT-CLASS-330-310	c 33	N83-34191 *	US-PATENT-CLASS-331-117-R	c 33	N87-21232 *	US-PATENT-CLASS-331-94.5P	c 36	N79-18307 *
US-PATENT-CLASS-330-311	c 33	N86-20670 *	US-PATENT-CLASS-331-117FE	c 33	N90-23635 *	US-PATENT-CLASS-331-94.5P	c 36	N80-14384 *
US-PATENT-CLASS-330-31	c 10	N71-26331 *	US-PATENT-CLASS-331-117R	c 33	N74-26732 *	US-PATENT-CLASS-331-94.5P	c 36	N82-13415 *
US-PATENT-CLASS-330-31	c 10	N72-17172 *	US-PATENT-CLASS-331-117	c 10	N71-27271 *	US-PATENT-CLASS-331-94.5S	c 36	N74-15145 *
US-PATENT-CLASS-330-35	c 09	N72-17156 *	US-PATENT-CLASS-331-117	c 09	N72-22203 *	US-PATENT-CLASS-331-94.5S	c 36	N77-25499 *
US-PATENT-CLASS-330-35	c 09	N73-20232 *	US-PATENT-CLASS-331-12	c 33	N78-32338 *	US-PATENT-CLASS-331-94.5T	c 35	N77-27366 *
US-PATENT-CLASS-330-35	c 33	N74-14939 *	US-PATENT-CLASS-331-135	c 10	N73-32145 *	US-PATENT-CLASS-331-94.5T	c 36	N78-17366 *
US-PATENT-CLASS-330-4.3	c 16	N73-32391 *	US-PATENT-CLASS-331-14	c 09	N72-21247 *	US-PATENT-CLASS-331-94.5	c 16	N71-18614 *
US-PATENT-CLASS-330-4.3	c 36	N75-19655 *	US-PATENT-CLASS-331-14	c 33	N74-10194 *	US-PATENT-CLASS-331-94.5	c 16	N71-24832 *
US-PATENT-CLASS-330-4.3	c 36	N75-27364 *	US-PATENT-CLASS-331-14	c 33	N79-11313 *	US-PATENT-CLASS-331-94.5	c 23	N71-26722 *
US-PATENT-CLASS-330-4.3	c 36	N75-32441 *	US-PATENT-CLASS-331-159	c 33	N74-20862 *	US-PATENT-CLASS-331-94.5	c 15	N71-27135 *
US-PATENT-CLASS-330-4.3	c 36	N76-29575 *	US-PATENT-CLASS-331-162	c 33	N88-26596 *	US-PATENT-CLASS-331-94.5	c 23	N71-29125 *
US-PATENT-CLASS-330-4.3	c 36	N77-25502 *	US-PATENT-CLASS-331-177-R	c 33	N87-22895 *	US-PATENT-CLASS-331-94.5	c 16	N71-33410 *
US-PATENT-CLASS-330-4.3	c 73	N78-19920 *	US-PATENT-CLASS-331-177R	c 09	N73-15235 *	US-PATENT-CLASS-331-94.5	c 16	N72-12440 *
US-PATENT-CLASS-330-4.3	c 36	N82-28616 *	US-PATENT-CLASS-331-177V	c 33	N77-17351 *	US-PATENT-CLASS-331-94.5	c 25	N72-24753 *
US-PATENT-CLASS-330-4.5	c 09	N72-25258 *	US-PATENT-CLASS-331-177	c 10	N71-27271 *	US-PATENT-CLASS-331-94.5	c 16	N72-25485 *
US-PATENT-CLASS-330-4.9	c 33	N74-32660 *	US-PATENT-CLASS-331-178	c 33	N74-10194 *	US-PATENT-CLASS-331-94.5	c 07	N73-26119 *
US-PATENT-CLASS-330-40	c 07	N71-28430 *	US-PATENT-CLASS-331-17	c 10	N71-20852 *	US-PATENT-CLASS-331-94.5	c 09	N73-32111 *
US-PATENT-CLASS-330-40	c 09	N72-17155 *	US-PATENT-CLASS-331-17	c 10	N73-27171 *	US-PATENT-CLASS-331-94.5	c 16	N73-32391 *
US-PATENT-CLASS-330-40	c 09	N73-20232 *	US-PATENT-CLASS-331-17	c 33	N74-10194 *	US-PATENT-CLASS-331-94.5	c 36	N76-18427 *
US-PATENT-CLASS-330-40	c 33	N75-30428 *	US-PATENT-CLASS-331-17	c 32	N89-29076 *	US-PATENT-CLASS-331-94.5G	c 36	N75-32441 *
US-PATENT-CLASS-330-43	c 33	N79-10339 *	US-PATENT-CLASS-331-183	c 33	N74-26732 *	US-PATENT-CLASS-331-94	c 16	N70-41578 *
US-PATENT-CLASS-330-43	c 33	N82-26568 *	US-PATENT-CLASS-331-18	c 10	N71-26374 *	US-PATENT-CLASS-331-94	c 16	N72-28521 *
US-PATENT-CLASS-330-43	c 33	N86-21742 *	US-PATENT-CLASS-331-18	c 33	N74-10194 *	US-PATENT-CLASS-331-94	c 16	N73-13489 *
US-PATENT-CLASS-330-49	c 14	N70-35220 *	US-PATENT-CLASS-331-18	c 33	N75-25040 *	US-PATENT-CLASS-331-94	c 35	N76-15436 *
US-PATENT-CLASS-330-4	c 16	N71-15550 *	US-PATENT-CLASS-331-1	c 52	N91-14709 *	US-PATENT-CLASS-331-94	c 36	N76-31512 *
US-PATENT-CLASS-330-4	c 16	N71-24831 *	US-PATENT-CLASS-331-23	c 09	N72-21247 *	US-PATENT-CLASS-331-94	c 36	N79-14362 *
US-PATENT-CLASS-330-4	c 16	N72-28521 *	US-PATENT-CLASS-331-23	c 33	N77-14334 *	US-PATENT-CLASS-331-94	c 36	N80-18372 *
US-PATENT-CLASS-330-4	c 36	N75-15029 *	US-PATENT-CLASS-331-23	c 33	N79-11313 *	US-PATENT-CLASS-331-96	c 33	N85-29143 *
US-PATENT-CLASS-330-4	c 36	N76-31512 *	US-PATENT-CLASS-331-25	c 10	N73-27171 *	US-PATENT-CLASS-332-10	c 08	N71-29138 *
US-PATENT-CLASS-330-4	c 36	N78-18410 *	US-PATENT-CLASS-331-25	c 33	N75-25040 *	US-PATENT-CLASS-332-11D	c 35	N74-17885 *
US-PATENT-CLASS-330-4	c 36	N80-18372 *	US-PATENT-CLASS-331-25	c 32	N88-29076 *	US-PATENT-CLASS-332-16	c 33	N77-21314 *
US-PATENT-CLASS-330-4	c 36	N83-35350 *	US-PATENT-CLASS-331-27	c 33	N79-11313 *	US-PATENT-CLASS-332-18	c 33	N77-17351 *
US-PATENT-CLASS-330-5.5	c 71	N77-26919 *	US-PATENT-CLASS-331-2	c 33	N86-20668 *	US-PATENT-CLASS-332-19	c 10	N71-23544 *
US-PATENT-CLASS-330-51	c 10	N71-28859 *	US-PATENT-CLASS-331-30	c 09	N72-21247 *	US-PATENT-CLASS-332-1	c 10	N71-23084 *
US-PATENT-CLASS-330-51	c 33	N79-22373 *	US-PATENT-CLASS-331-31	c 33	N85-29143 *	US-PATENT-CLASS-332-21	c 08	N72-25208 *
US-PATENT-CLASS-330-52	c 71	N78-14867 *	US-PATENT-CLASS-331-34	c 07	N72-11150 *	US-PATENT-CLASS-332-22	c 32	N77-14292 *
US-PATENT-CLASS-330-53	c 33	N74-32660 *	US-PATENT-CLASS-331-36C	c 33	N77-14334 *	US-PATENT-CLASS-332-22	c 33	N81-15192 *
US-PATENT-CLASS-330-59	c 09	N72-25250 *	US-PATENT-CLASS-331-36C	c 33	N85-29143 *	US-PATENT-CLASS-332-23-A	c 32	N87-25511 *
US-PATENT-CLASS-330-59	c 33	N74-21851 *	US-PATENT-CLASS-331-3	c 35	N76-15436 *	US-PATENT-CLASS-332-23R	c 32	N77-14292 *
US-PATENT-CLASS-330-59	c 33	N77-14335 *	US-PATENT-CLASS-331-3	c 33	N85-29143 *	US-PATENT-CLASS-332-23R	c 33	N81-15192 *
US-PATENT-CLASS-330-5	c 33	N75-27251 *	US-PATENT-CLASS-331-3	c 33	N88-26596 *	US-PATENT-CLASS-332-29	c 07	N71-28429 *
US-PATENT-CLASS-330-61	c 09	N71-23097 *	US-PATENT-CLASS-331-44	c 14	N72-27408 *	US-PATENT-CLASS-332-2	c 35	N75-19614 *
US-PATENT-CLASS-330-63	c 33	N75-30428 *	US-PATENT-CLASS-331-45	c 10	N73-16206 *	US-PATENT-CLASS-332-30V	c 33	N77-14334 *
US-PATENT-CLASS-330-69	c 33	N74-32712 *	US-PATENT-CLASS-331-48	c 33	N81-17349 *	US-PATENT-CLASS-332-30V	c 33	N77-17351 *
US-PATENT-CLASS-330-69	c 33	N75-19518 *	US-PATENT-CLASS-331-4	c 09	N69-21543 *	US-PATENT-CLASS-332-30	c 10	N71-27271 *
US-PATENT-CLASS-330-6	c 35	N75-13213 *	US-PATENT-CLASS-331-4	c 33	N74-10194 *	US-PATENT-CLASS-332-30	c 07	N71-28429 *
US-PATENT-CLASS-330-70CR	c 10	N73-27171 *	US-PATENT-CLASS-331-4	c 33	N78-32338 *	US-PATENT-CLASS-332-30	c 33	N77-21314 *
US-PATENT-CLASS-330-70R	c 09	N72-21245 *	US-PATENT-CLASS-331-56	c 33	N87-21232 *	US-PATENT-CLASS-332-31	c 08	N71-12500 *
US-PATENT-CLASS-330-80T	c 09	N73-20232 *	US-PATENT-CLASS-331-62	c 33	N74-11049 *	US-PATENT-CLASS-332-31	c 26	N72-21701 *
US-PATENT-CLASS-330-85	c 09	N72-21245 *	US-PATENT-CLASS-331-64	c 33	N78-32338 *	US-PATENT-CLASS-332-47	c 33	N75-19520 *
US-PATENT-CLASS-330-86	c 09	N73-20231 *	US-PATENT-CLASS-331-65	c 35	N75-29380 *	US-PATENT-CLASS-332-51W	c 07	N72-20141 *
US-PATENT-CLASS-330-86	c 33	N75-19518 *	US-PATENT-CLASS-331-65	c 33	N80-23559 *	US-PATENT-CLASS-332-52	c 33	N77-21314 *
US-PATENT-CLASS-330-86	c 33	N79-22373 *	US-PATENT-CLASS-331-66	c 07	N72-11150 *	US-PATENT-CLASS-332-7.51	c 16	N72-25485 *
US-PATENT-CLASS-330-8	c 33	N81-24338 *	US-PATENT-CLASS-331-66	c 33	N86-32624 *	US-PATENT-CLASS-332-7.51	c 07	N73-26119 *
US-PATENT-CLASS-330-8	c 33	N89-29681 *	US-PATENT-CLASS-331-78	c 09	N71-23598 *	US-PATENT-CLASS-332-7.51	c 33	N74-20859 *
US-PATENT-CLASS-330-94	c 10	N72-17172 *	US-PATENT-CLASS-331-78	c 08	N73-12175 *	US-PATENT-CLASS-332-7.51	c 36	N76-18427 *
US-PATENT-CLASS-330-9	c 33	N74-14939 *	US-PATENT-CLASS-331-78	c 33	N75-19515 *	US-PATENT-CLASS-332-7.5	c 36	N75-15029 *
US-PATENT-CLASS-331-DIG.1	c 36	N75-30524 *	US-PATENT-CLASS-331-7	c 07	N72-11150 *	US-PATENT-CLASS-332-7.5	c 36	N78-18410 *

US-PATENT-CLASS-332-7.5	c 36	N83-35350 *	US-PATENT-CLASS-336-DIG.1	c 33	N79-17133 *	US-PATENT-CLASS-34-160	c 14	N73-28489 *
US-PATENT-CLASS-332-751	c 36	N80-16321 *	US-PATENT-CLASS-336-120	c 33	N82-24422 *	US-PATENT-CLASS-34-162	c 14	N73-28489 *
US-PATENT-CLASS-332-9R	c 08	N71-29138 *	US-PATENT-CLASS-336-178	c 09	N72-17154 *	US-PATENT-CLASS-34-162	c 35	N74-15831 *
US-PATENT-CLASS-332-9	c 07	N71-12390 *	US-PATENT-CLASS-336-198	c 09	N72-27226 *	US-PATENT-CLASS-34-57A	c 35	N83-24828 *
US-PATENT-CLASS-333-104	c 33	N82-16340 *	US-PATENT-CLASS-336-198	c 33	N85-29146 *	US-PATENT-CLASS-340-12R	c 35	N74-16135 *
US-PATENT-CLASS-333-12	c 32	N80-32605 *	US-PATENT-CLASS-336-198	c 33	N91-14539 *	US-PATENT-CLASS-340-12R	c 46	N79-23555 *
US-PATENT-CLASS-333-12	c 33	N81-27397 *	US-PATENT-CLASS-336-200	c 26	N73-26752 *	US-PATENT-CLASS-340-146.1AL	c 08	N72-25210 *
US-PATENT-CLASS-333-14	c 32	N74-19788 *	US-PATENT-CLASS-336-205	c 33	N91-14539 *	US-PATENT-CLASS-340-146.1AL	c 08	N73-12175 *
US-PATENT-CLASS-333-162	c 33	N84-16452 *	US-PATENT-CLASS-336-210	c 33	N74-17928 *	US-PATENT-CLASS-340-146.1AL	c 32	N77-12240 *
US-PATENT-CLASS-333-162	c 33	N84-27974 *	US-PATENT-CLASS-336-220	c 09	N72-27226 *	US-PATENT-CLASS-340-146.1AQ	c 08	N73-12177 *
US-PATENT-CLASS-333-16	c 33	N74-17927 *	US-PATENT-CLASS-336-229	c 33	N91-14539 *	US-PATENT-CLASS-340-146.1AQ	c 32	N74-32598 *
US-PATENT-CLASS-333-17R	c 33	N78-32340 *	US-PATENT-CLASS-336-60	c 09	N72-27226 *	US-PATENT-CLASS-340-146.1AQ	c 32	N77-12240 *
US-PATENT-CLASS-333-17	c 44	N74-19870 *	US-PATENT-CLASS-336-83	c 33	N82-24422 *	US-PATENT-CLASS-340-146.1AV	c 08	N73-12177 *
US-PATENT-CLASS-333-18	c 33	N74-17927 *	US-PATENT-CLASS-336-84C	c 33	N85-29146 *	US-PATENT-CLASS-340-146.1AV	c 32	N77-12240 *
US-PATENT-CLASS-333-18	c 32	N76-21366 *	US-PATENT-CLASS-337-114	c 09	N71-29035 *	US-PATENT-CLASS-340-146.1AX	c 32	N79-10263 *
US-PATENT-CLASS-333-204	c 33	N81-17348 *	US-PATENT-CLASS-337-121	c 09	N71-29035 *	US-PATENT-CLASS-340-146.1C	c 07	N73-20176 *
US-PATENT-CLASS-333-20	c 33	N82-24418 *	US-PATENT-CLASS-337-140	c 37	N86-19604 *	US-PATENT-CLASS-340-146.1E	c 32	N79-10263 *
US-PATENT-CLASS-333-21A	c 07	N71-33606 *	US-PATENT-CLASS-337-14	c 31	N83-31897 *	US-PATENT-CLASS-340-146.1	c 09	N71-18843 *
US-PATENT-CLASS-333-21R	c 33	N75-30430 *	US-PATENT-CLASS-337-334	c 37	N77-19458 *	US-PATENT-CLASS-340-146.1	c 08	N71-22749 *
US-PATENT-CLASS-333-214	c 33	N87-22895 *	US-PATENT-CLASS-337-354	c 15	N72-12409 *	US-PATENT-CLASS-340-146.1	c 10	N71-26103 *
US-PATENT-CLASS-333-217	c 33	N87-22895 *	US-PATENT-CLASS-337-359	c 15	N72-12409 *	US-PATENT-CLASS-340-146.1	c 08	N71-27255 *
US-PATENT-CLASS-333-21	c 07	N71-10676 *	US-PATENT-CLASS-337-393	c 37	N87-23970 *	US-PATENT-CLASS-340-146.1	c 08	N72-22167 *
US-PATENT-CLASS-333-22F	c 32	N83-27085 *	US-PATENT-CLASS-337-75	c 15	N72-12409 *	US-PATENT-CLASS-340-146.1	c 08	N72-25207 *
US-PATENT-CLASS-333-231	c 33	N85-29143 *	US-PATENT-CLASS-337	c 25	N79-28253 *	US-PATENT-CLASS-340-146.1	c 07	N73-13149 *
US-PATENT-CLASS-333-24.2	c 36	N83-35350 *	US-PATENT-CLASS-338-100	c 35	N78-17359 *	US-PATENT-CLASS-340-146.2	c 08	N71-12505 *
US-PATENT-CLASS-333-24R	c 09	N72-29172 *	US-PATENT-CLASS-338-114	c 52	N74-27864 *	US-PATENT-CLASS-340-146.2	c 08	N71-23295 *
US-PATENT-CLASS-333-24R	c 36	N80-18372 *	US-PATENT-CLASS-338-13	c 24	N75-30260 *	US-PATENT-CLASS-340-146.3H	c 74	N81-19896 *
US-PATENT-CLASS-333-246	c 33	N82-16340 *	US-PATENT-CLASS-338-162	c 37	N75-13265 *	US-PATENT-CLASS-340-146.3Q	c 43	N77-10584 *
US-PATENT-CLASS-333-247	c 33	N91-14552 *	US-PATENT-CLASS-338-18	c 35	N79-33449 *	US-PATENT-CLASS-340-146.3Q	c 43	N77-10584 *
US-PATENT-CLASS-333-252	c 32	N80-32605 *	US-PATENT-CLASS-338-221	c 33	N91-14537 *	US-PATENT-CLASS-340-146.3S	c 74	N81-19896 *
US-PATENT-CLASS-333-254	c 32	N83-27085 *	US-PATENT-CLASS-338-229	c 35	N77-24454 *	US-PATENT-CLASS-340-146.3Y	c 74	N81-19896 *
US-PATENT-CLASS-333-262	c 33	N80-18285 *	US-PATENT-CLASS-338-25	c 35	N77-21393 *	US-PATENT-CLASS-340-147C	c 60	N76-14818 *
US-PATENT-CLASS-333-30	c 10	N71-25900 *	US-PATENT-CLASS-338-25	c 35	N82-24470 *	US-PATENT-CLASS-340-147R	c 07	N73-20176 *
US-PATENT-CLASS-333-6	c 07	N71-33606 *	US-PATENT-CLASS-338-275	c 35	N82-24470 *	US-PATENT-CLASS-340-147R	c 60	N76-14818 *
US-PATENT-CLASS-333-7OCR	c 10	N72-17171 *	US-PATENT-CLASS-338-283	c 24	N75-30260 *	US-PATENT-CLASS-340-147SY	c 17	N76-22245 *
US-PATENT-CLASS-333-7OR	c 32	N77-18307 *	US-PATENT-CLASS-338-28	c 35	N77-20400 *	US-PATENT-CLASS-340-147	c 09	N70-33182 *
US-PATENT-CLASS-333-72	c 10	N71-25900 *	US-PATENT-CLASS-338-28	c 35	N77-24454 *	US-PATENT-CLASS-340-147	c 09	N70-38998 *
US-PATENT-CLASS-333-72	c 71	N77-26919 *	US-PATENT-CLASS-338-28	c 35	N82-24470 *	US-PATENT-CLASS-340-15.SGC	c 14	N73-26432 *
US-PATENT-CLASS-333-73R	c 09	N73-26195 *	US-PATENT-CLASS-338-2	c 33	N75-13129 *	US-PATENT-CLASS-340-150	c 10	N71-27272 *
US-PATENT-CLASS-333-73S	c 09	N73-26195 *	US-PATENT-CLASS-338-2	c 35	N80-20560 *	US-PATENT-CLASS-340-151	c 33	N74-27862 *
US-PATENT-CLASS-333-73W	c 07	N72-20141 *	US-PATENT-CLASS-338-2	c 52	N80-27072 *	US-PATENT-CLASS-340-163	c 07	N73-20176 *
US-PATENT-CLASS-333-73	c 07	N69-24323 *	US-PATENT-CLASS-338-2	c 35	N84-12443 *	US-PATENT-CLASS-340-164	c 10	N71-27272 *
US-PATENT-CLASS-333-73	c 09	N71-23573 *	US-PATENT-CLASS-338-309	c 27	N84-33589 *	US-PATENT-CLASS-340-166	c 10	N71-27272 *
US-PATENT-CLASS-333-75	c 32	N77-18307 *	US-PATENT-CLASS-338-32S	c 33	N78-13320 *	US-PATENT-CLASS-340-166	c 10	N73-32144 *
US-PATENT-CLASS-333-76	c 32	N77-18307 *	US-PATENT-CLASS-338-320	c 33	N74-14935 *	US-PATENT-CLASS-340-167	c 07	N72-25173 *
US-PATENT-CLASS-333-79	c 10	N70-41964 *	US-PATENT-CLASS-338-32	c 33	N91-14537 *	US-PATENT-CLASS-340-171	c 09	N72-22202 *
US-PATENT-CLASS-333-79	c 09	N72-25256 *	US-PATENT-CLASS-338-36	c 35	N78-17359 *	US-PATENT-CLASS-340-171	c 16	N73-16536 *
US-PATENT-CLASS-333-7	c 07	N71-33606 *	US-PATENT-CLASS-338-5	c 32	N71-15974 *	US-PATENT-CLASS-340-172.5	c 08	N69-21928 *
US-PATENT-CLASS-333-7	c 07	N72-25170 *	US-PATENT-CLASS-338-5	c 52	N74-27864 *	US-PATENT-CLASS-340-172.5	c 09	N69-24333 *
US-PATENT-CLASS-333-80R	c 33	N74-32712 *	US-PATENT-CLASS-338-64	c 09	N71-21583 *	US-PATENT-CLASS-340-172.5	c 08	N71-12502 *
US-PATENT-CLASS-333-80T	c 10	N72-33230 *	US-PATENT-CLASS-338-6	c 35	N76-14430 *	US-PATENT-CLASS-340-172.5	c 08	N71-12506 *
US-PATENT-CLASS-333-80	c 09	N71-12517 *	US-PATENT-CLASS-338-6	c 52	N76-29895 *	US-PATENT-CLASS-340-172.5	c 31	N71-15566 *
US-PATENT-CLASS-333-80	c 09	N72-21245 *	US-PATENT-CLASS-338-75	c 37	N75-13265 *	US-PATENT-CLASS-340-172.5	c 08	N71-19288 *
US-PATENT-CLASS-333-81B	c 14	N73-13420 *	US-PATENT-CLASS-338-82	c 09	N71-20842 *	US-PATENT-CLASS-340-172.5	c 08	N71-22707 *
US-PATENT-CLASS-333-81R	c 07	N72-25170 *	US-PATENT-CLASS-338-89	c 35	N74-32877 *	US-PATENT-CLASS-340-172.5	c 08	N71-22710 *
US-PATENT-CLASS-333-81R	c 33	N78-32340 *	US-PATENT-CLASS-338-97	c 37	N75-13265 *	US-PATENT-CLASS-340-172.5	c 07	N71-24624 *
US-PATENT-CLASS-333-81R	c 32	N80-14281 *	US-PATENT-CLASS-338-99	c 35	N78-17359 *	US-PATENT-CLASS-340-172.5	c 08	N71-27255 *
US-PATENT-CLASS-333-81	c 07	N71-29065 *	US-PATENT-CLASS-339-143C	c 33	N76-16332 *	US-PATENT-CLASS-340-172.5	c 07	N72-25172 *
US-PATENT-CLASS-333-82A	c 09	N73-26195 *	US-PATENT-CLASS-339-143R	c 09	N72-25256 *	US-PATENT-CLASS-340-172.5	c 08	N72-25207 *
US-PATENT-CLASS-333-82B	c 32	N77-18307 *	US-PATENT-CLASS-339-147R	c 09	N72-25256 *	US-PATENT-CLASS-340-172.5	c 09	N72-25248 *
US-PATENT-CLASS-333-83BT	c 33	N75-30430 *	US-PATENT-CLASS-339-150	c 09	N69-21470 *	US-PATENT-CLASS-340-172.5	c 08	N73-13187 *
US-PATENT-CLASS-333-83R	c 36	N74-11313 *	US-PATENT-CLASS-339-17M	c 37	N76-27567 *	US-PATENT-CLASS-340-172.5	c 08	N73-26176 *
US-PATENT-CLASS-333-83	c 09	N71-24841 *	US-PATENT-CLASS-339-17R	c 15	N71-29133 *	US-PATENT-CLASS-340-172.5	c 60	N76-18800 *
US-PATENT-CLASS-333-84M	c 09	N73-26195 *	US-PATENT-CLASS-339-176MF	c 09	N72-28225 *	US-PATENT-CLASS-340-172.5	c 60	N76-21914 *
US-PATENT-CLASS-333-8	c 07	N69-24334 *	US-PATENT-CLASS-339-176M	c 15	N72-17455 *	US-PATENT-CLASS-340-172.5	c 60	N77-12721 *
US-PATENT-CLASS-333-95	c 07	N71-27191 *	US-PATENT-CLASS-339-176	c 09	N70-34596 *	US-PATENT-CLASS-340-172.5	c 60	N77-14751 *
US-PATENT-CLASS-333-96	c 09	N71-20445 *	US-PATENT-CLASS-339-176	c 09	N70-36494 *	US-PATENT-CLASS-340-172.5	c 60	N77-19760 *
US-PATENT-CLASS-333-96	c 07	N71-27191 *	US-PATENT-CLASS-339-177	c 09	N71-20851 *	US-PATENT-CLASS-340-173.2	c 08	N72-21198 *
US-PATENT-CLASS-333-97R	c 36	N74-11313 *	US-PATENT-CLASS-339-17	c 14	N69-27431 *	US-PATENT-CLASS-340-173CA	c 33	N75-31331 *
US-PATENT-CLASS-333-97	c 07	N69-27462 *	US-PATENT-CLASS-339-17	c 15	N71-17685 *	US-PATENT-CLASS-340-173CR	c 60	N74-12888 *
US-PATENT-CLASS-333-98P	c 07	N72-25170 *	US-PATENT-CLASS-339-17	c 09	N71-26133 *	US-PATENT-CLASS-340-173LM	c 60	N74-12888 *
US-PATENT-CLASS-333-98P	c 09	N72-29172 *	US-PATENT-CLASS-339-18C	c 37	N76-27567 *	US-PATENT-CLASS-340-173LM	c 60	N78-10709 *
US-PATENT-CLASS-333-98R	c 07	N72-25170 *	US-PATENT-CLASS-339-198R	c 33	N76-16332 *	US-PATENT-CLASS-340-173LS	c 08	N72-21198 *
US-PATENT-CLASS-333-98R	c 09	N72-29172 *	US-PATENT-CLASS-339-218M	c 09	N72-28225 *	US-PATENT-CLASS-340-173LS	c 36	N75-19652 *
US-PATENT-CLASS-333-98R	c 14	N73-13420 *	US-PATENT-CLASS-339-242	c 33	N76-16332 *	US-PATENT-CLASS-340-173	c 10	N73-32144 *
US-PATENT-CLASS-333-98R	c 33	N75-30430 *	US-PATENT-CLASS-339-252R	c 52	N77-14738 *	US-PATENT-CLASS-340-174.1L	c 35	N74-11283 *
US-PATENT-CLASS-333-98S	c 07	N72-25170 *	US-PATENT-CLASS-339-258RR	c 33	N84-14423 *	US-PATENT-CLASS-340-174.1M	c 36	N74-13205 *
US-PATENT-CLASS-333-98	c 09	N71-23548 *	US-PATENT-CLASS-339-262RR	c 33	N84-14423 *	US-PATENT-CLASS-340-174.1M	c 35	N78-29421 *
US-PATENT-CLASS-333-98	c 09	N71-24808 *	US-PATENT-CLASS-339-275R	c 33	N76-16332 *	US-PATENT-CLASS-340-174.1M	c 35	N79-16246 *
US-PATENT-CLASS-333-99S	c 32	N80-32605 *	US-PATENT-CLASS-339-275T	c 09	N72-20200 *	US-PATENT-CLASS-340-174.1R	c 21	N73-13644 *
US-PATENT-CLASS-335-100	c 37	N85-30333 *	US-PATENT-CLASS-339-276T	c 09	N72-20200 *	US-PATENT-CLASS-340-174.1	c 08	N71-21042 *
US-PATENT-CLASS-335-205	c 09	N72-20199 *	US-PATENT-CLASS-339-278M	c 15	N72-17455 *	US-PATENT-CLASS-340-174.1	c 07	N71-23001 *
US-PATENT-CLASS-335-216	c 16	N71-28554 *	US-PATENT-CLASS-339-3R	c 07	N83-20944 *	US-PATENT-CLASS-340-174.1	c 08	N71-27210 *
US-PATENT-CLASS-335-216	c 23	N71-29049 *	US-PATENT-CLASS-339-45M	c 15	N72-25450 *	US-PATENT-CLASS-340-174AG	c 23	N72-17747 *
US-PATENT-CLASS-335-216	c 26	N73-32571 *	US-PATENT-CLASS-339-46	c 15	N72-17455 *	US-PATENT-CLASS-340-174CS	c 08	N72-21199 *
US-PATENT-CLASS-335-216	c 20	N75-24837 *	US-PATENT-CLASS-339-5R	c 07	N83-20944 *	US-PATENT-CLASS-340-174CT	c 23	N72-17747 *
US-PATENT-CLASS-335-216	c 33	N79-21264 *	US-PATENT-CLASS-339-5	c 15	N71-23049 *	US-PATENT-CLASS-340-174GA	c 23	N72-17747 *
US-PATENT-CLASS-335-222	c 35	N84-28017 *	US-PATENT-CLASS-339-64M	c 33	N84-14423 *	US-PATENT-CLASS-340-174LC	c 36	N74-13205 *
US-PATENT-CLASS-335-229	c 33	N82-24421 *	US-PATENT-CLASS-339-75MP	c 09	N72-28225 *	US-PATENT-CLASS-340-174MA	c 24	N75-13032 *
US-PATENT-CLASS-335-256	c 33	N82-11357 *	US-PATENT-CLASS-339-91B	c 15	N72-25450 *	US-PATENT-CLASS-340-174M	c 08	N72-21199 *
US-PATENT-CLASS-335-266	c 33	N82-11357 *	US-PATENT-CLASS-339-91	c 09	N69-21927 *	US-PATENT-CLASS-340-174SC	c 23	N72-17747 *
US-PATENT-CLASS-335-266	c 33	N82-24421 *	US-PATENT-CLASS-339-94M	c 09	N72-28225 *	US-PATENT-CLASS-340-174SR	c 08	N72-21199 *
US-PATENT-CLASS-335-296	c 09	N73-30185 *	US-PATENT-CLASS-339-95	c 09	N69-39734 *	US-PATENT-CLASS-340-174YC	c 36	N74-13205 *
US-PATENT-CLASS-335-297	c 09	N73-30185 *	US-PATENT-CLASS-339-12R	c 52	N77-25772 *	US-PATENT-CLASS-340-174YC	c 35	N78-29421 *
US-PATENT-CLASS-335-300	c 09	N70-41929 *	US-PATENT-CLASS-34-155	c 14	N73-28489 *	US-PATENT-CLASS-340-174	c 08	N71-12504 *
US-PATENT-CLASS-336-DIG.1	c 26	N73-26752 *	US-PATENT-CLASS-34-15	c 28	N78-24365 *	US-PATENT-CLASS-340-174	c 09	N71-12515 *

REPORT NUMBER INDEX

US-PATENT-CLASS-343-179

US-PATENT-CLASS-340-174	c 08	N71-18595 *	US-PATENT-CLASS-340-347P	c 60	N76-23850 *	US-PATENT-CLASS-343-100CL ..	c 32	N77-32342 *
US-PATENT-CLASS-340-174	c 08	N71-18694 *	US-PATENT-CLASS-340-347P	c 35	N77-30436 *	US-PATENT-CLASS-343-100CL ..	c 32	N79-14268 *
US-PATENT-CLASS-340-174	c 10	N71-23033 *	US-PATENT-CLASS-340-347R	c 08	N72-22165 *	US-PATENT-CLASS-343-100CL ..	c 32	N81-29308 *
US-PATENT-CLASS-340-174	c 10	N71-26418 *	US-PATENT-CLASS-340-347SH	c 33	N77-31404 *	US-PATENT-CLASS-343-100CL ..	c 32	N83-18975 *
US-PATENT-CLASS-340-174	c 10	N71-26434 *	US-PATENT-CLASS-340-347SY	c 62	N76-31946 *	US-PATENT-CLASS-343-100CL ..	c 32	N83-19968 *
US-PATENT-CLASS-340-174	c 08	N71-28925 *	US-PATENT-CLASS-340-347SY	c 35	N77-30436 *	US-PATENT-CLASS-343-100ME ..	c 14	N72-28437 *
US-PATENT-CLASS-340-174	c 10	N71-29135 *	US-PATENT-CLASS-340-347SY	c 31	N86-29055 *	US-PATENT-CLASS-343-100ME ..	c 14	N73-26432 *
US-PATENT-CLASS-340-177VA ..	c 06	N80-18036 *	US-PATENT-CLASS-340-347	c 08	N70-35423 *	US-PATENT-CLASS-343-100ME ..	c 46	N80-14603 *
US-PATENT-CLASS-340-177	c 09	N72-17153 *	US-PATENT-CLASS-340-347	c 08	N70-40125 *	US-PATENT-CLASS-343-100ME ..	c 35	N80-18359 *
US-PATENT-CLASS-340-182	c 33	N74-27862 *	US-PATENT-CLASS-340-347	c 08	N71-12501 *	US-PATENT-CLASS-343-100ME ..	c 46	N82-12685 *
US-PATENT-CLASS-340-183	c 52	N74-26625 *	US-PATENT-CLASS-340-347	c 08	N71-18594 *	US-PATENT-CLASS-343-100ME ..	c 06	N83-10040 *
US-PATENT-CLASS-340-189M ..	c 17	N76-29347 *	US-PATENT-CLASS-340-347	c 08	N71-19435 *	US-PATENT-CLASS-343-100PE ..	c 32	N75-24982 *
US-PATENT-CLASS-340-198	c 14	N70-33179 *	US-PATENT-CLASS-340-347	c 08	N71-19544 *	US-PATENT-CLASS-343-100PE ..	c 33	N81-26358 *
US-PATENT-CLASS-340-198	c 07	N71-11298 *	US-PATENT-CLASS-340-347	c 08	N71-19687 *	US-PATENT-CLASS-343-100PE ..	c 46	N82-12685 *
US-PATENT-CLASS-340-200	c 33	N74-27862 *	US-PATENT-CLASS-340-347	c 08	N71-24650 *	US-PATENT-CLASS-343-100PE ..	c 35	N82-15381 *
US-PATENT-CLASS-340-200	c 33	N77-31404 *	US-PATENT-CLASS-340-347	c 10	N71-25917 *	US-PATENT-CLASS-343-100R	c 10	N73-16206 *
US-PATENT-CLASS-340-203	c 09	N72-22202 *	US-PATENT-CLASS-340-347	c 10	N71-26544 *	US-PATENT-CLASS-343-100R	c 33	N80-18287 *
US-PATENT-CLASS-340-203	c 52	N74-26625 *	US-PATENT-CLASS-340-347	c 08	N73-28045 *	US-PATENT-CLASS-343-100SA ..	c 10	N73-16206 *
US-PATENT-CLASS-340-206	c 17	N76-29347 *	US-PATENT-CLASS-340-348	c 08	N72-22167 *	US-PATENT-CLASS-343-100SA ..	c 33	N74-20860 *
US-PATENT-CLASS-340-207P ..	c 17	N76-22245 *	US-PATENT-CLASS-340-38P	c 66	N76-19888 *	US-PATENT-CLASS-343-100SA ..	c 17	N76-21250 *
US-PATENT-CLASS-340-207R ..	c 52	N74-26625 *	US-PATENT-CLASS-340-403	c 10	N71-27272 *	US-PATENT-CLASS-343-100SA ..	c 32	N80-28578 *
US-PATENT-CLASS-340-207	c 07	N73-25160 *	US-PATENT-CLASS-340-407	c 71	N74-21014 *	US-PATENT-CLASS-343-100ST ..	c 07	N72-21118 *
US-PATENT-CLASS-340-210	c 03	N72-20031 *	US-PATENT-CLASS-340-407	c 82	N87-29372 *	US-PATENT-CLASS-343-100ST ..	c 33	N74-20860 *
US-PATENT-CLASS-340-213.1 ..	c 10	N71-19417 *	US-PATENT-CLASS-340-412	c 10	N71-24798 *	US-PATENT-CLASS-343-100ST ..	c 32	N75-15854 *
US-PATENT-CLASS-340-213R ..	c 54	N78-32720 *	US-PATENT-CLASS-340-415	c 10	N73-32144 *	US-PATENT-CLASS-343-100ST ..	c 17	N76-21250 *
US-PATENT-CLASS-340-213	c 10	N71-27272 *	US-PATENT-CLASS-340-418	c 14	N73-16484 *	US-PATENT-CLASS-343-100ST ..	c 32	N77-20289 *
US-PATENT-CLASS-340-223	c 10	N73-32144 *	US-PATENT-CLASS-340-5C	c 14	N73-27379 *	US-PATENT-CLASS-343-100ST ..	c 33	N80-18287 *
US-PATENT-CLASS-340-224	c 37	N77-19458 *	US-PATENT-CLASS-340-5H	c 32	N77-21267 *	US-PATENT-CLASS-343-100TD ..	c 32	N79-24210 *
US-PATENT-CLASS-340-227R ..	c 14	N72-25412 *	US-PATENT-CLASS-340-5R	c 35	N74-16135 *	US-PATENT-CLASS-343-100TD ..	c 32	N81-14185 *
US-PATENT-CLASS-340-227	c 10	N71-16058 *	US-PATENT-CLASS-340-51S	c 35	N83-34272 *	US-PATENT-CLASS-343-100	c 10	N71-18722 *
US-PATENT-CLASS-340-227	c 14	N71-27186 *	US-PATENT-CLASS-340-55S	c 74	N85-22139 *	US-PATENT-CLASS-343-100	c 07	N71-19854 *
US-PATENT-CLASS-340-228.2 ..	c 10	N72-17173 *	US-PATENT-CLASS-340-566	c 35	N83-34272 *	US-PATENT-CLASS-343-100	c 30	N71-23723 *
US-PATENT-CLASS-340-228S ..	c 14	N73-16484 *	US-PATENT-CLASS-340-57	c 14	N71-15620 *	US-PATENT-CLASS-343-100	c 07	N71-24621 *
US-PATENT-CLASS-340-233	c 14	N71-25901 *	US-PATENT-CLASS-340-580	c 35	N88-29149 *	US-PATENT-CLASS-343-100	c 09	N71-24804 *
US-PATENT-CLASS-340-235	c 10	N71-26334 *	US-PATENT-CLASS-340-602	c 33	N80-23559 *	US-PATENT-CLASS-343-100	c 31	N71-24813 *
US-PATENT-CLASS-340-237S ..	c 45	N76-17656 *	US-PATENT-CLASS-340-604	c 33	N80-23559 *	US-PATENT-CLASS-343-100	c 07	N71-27056 *
US-PATENT-CLASS-340-240	c 09	N72-27227 *	US-PATENT-CLASS-340-605	c 25	N86-27431 *	US-PATENT-CLASS-343-100	c 07	N71-28900 *
US-PATENT-CLASS-340-242	c 35	N75-19612 *	US-PATENT-CLASS-340-650	c 33	N79-18193 *	US-PATENT-CLASS-343-105R ..	c 32	N75-26194 *
US-PATENT-CLASS-340-248	c 10	N71-27338 *	US-PATENT-CLASS-340-664	c 33	N79-18193 *	US-PATENT-CLASS-343-105R ..	c 04	N84-27713 *
US-PATENT-CLASS-340-258R ..	c 07	N73-25160 *	US-PATENT-CLASS-340-683	c 37	N91-14607 *	US-PATENT-CLASS-343-108R ..	c 04	N74-13420 *
US-PATENT-CLASS-340-258	c 10	N72-28240 *	US-PATENT-CLASS-340-692	c 76	N90-24168 *	US-PATENT-CLASS-343-10	c 32	N77-32342 *
US-PATENT-CLASS-340-25	c 14	N73-16483 *	US-PATENT-CLASS-340-705	c 06	N84-27733 *	US-PATENT-CLASS-343-11F	c 09	N73-12211 *
US-PATENT-CLASS-340-262	c 54	N78-32720 *	US-PATENT-CLASS-340-8LF	c 71	N79-27353 *	US-PATENT-CLASS-343-11VB ..	c 09	N73-12211 *
US-PATENT-CLASS-340-26	c 21	N72-22619 *	US-PATENT-CLASS-340-8R	c 35	N74-16135 *	US-PATENT-CLASS-343-112CA ..	c 21	N73-13643 *
US-PATENT-CLASS-340-26	c 04	N82-16059 *	US-PATENT-CLASS-340-825.21 ..	c 60	N84-28492 *	US-PATENT-CLASS-343-112CA ..	c 21	N73-30641 *
US-PATENT-CLASS-340-27AT ..	c 21	N73-14692 *	US-PATENT-CLASS-340-825.5 ..	c 60	N84-28492 *	US-PATENT-CLASS-343-112CA ..	c 03	N75-30132 *
US-PATENT-CLASS-340-27NA ..	c 21	N73-13643 *	US-PATENT-CLASS-340-825.5 ..	c 17	N87-16863 *	US-PATENT-CLASS-343-112D ..	c 14	N72-28437 *
US-PATENT-CLASS-340-27NA ..	c 06	N82-16075 *	US-PATENT-CLASS-340-825.5 ..	c 62	N91-14772 *	US-PATENT-CLASS-343-112D ..	c 32	N75-26194 *
US-PATENT-CLASS-340-27R	c 14	N73-16483 *	US-PATENT-CLASS-340-825.69 ..	c 35	N90-23707 *	US-PATENT-CLASS-343-112D ..	c 46	N80-14603 *
US-PATENT-CLASS-340-27R	c 14	N73-20474 *	US-PATENT-CLASS-340-825.89 ..	c 33	N82-29538 *	US-PATENT-CLASS-343-112R ..	c 09	N73-32110 *
US-PATENT-CLASS-340-27SS ..	c 35	N78-14364 *	US-PATENT-CLASS-340-870.13 ..	c 35	N84-22934 *	US-PATENT-CLASS-343-112R ..	c 17	N78-17140 *
US-PATENT-CLASS-340-271	c 35	N77-30436 *	US-PATENT-CLASS-340-870.18 ..	c 17	N87-16863 *	US-PATENT-CLASS-343-112R ..	c 04	N80-32359 *
US-PATENT-CLASS-340-277	c 10	N73-30205 *	US-PATENT-CLASS-340-870.24 ..	c 33	N81-14221 *	US-PATENT-CLASS-343-112R ..	c 32	N81-27341 *
US-PATENT-CLASS-340-279	c 05	N72-16015 *	US-PATENT-CLASS-340-905	c 35	N84-33769 *	US-PATENT-CLASS-343-112TC ..	c 17	N76-21250 *
US-PATENT-CLASS-340-279	c 10	N73-30205 *	US-PATENT-CLASS-340-945	c 06	N87-22678 *	US-PATENT-CLASS-343-112	c 21	N71-13958 *
US-PATENT-CLASS-340-279	c 54	N78-32720 *	US-PATENT-CLASS-340-967	c 08	N87-20999 *	US-PATENT-CLASS-343-112	c 02	N71-19287 *
US-PATENT-CLASS-340-285	c 14	N71-25901 *	US-PATENT-CLASS-340-968	c 06	N86-27280 *	US-PATENT-CLASS-343-112	c 21	N71-24948 *
US-PATENT-CLASS-340-285	c 54	N78-32720 *	US-PATENT-CLASS-340-971	c 06	N84-27733 *	US-PATENT-CLASS-343-113R ..	c 09	N73-32110 *
US-PATENT-CLASS-340-309.1 ..	c 54	N78-32720 *	US-PATENT-CLASS-340-971	c 06	N87-22678 *	US-PATENT-CLASS-343-113R ..	c 44	N78-28594 *
US-PATENT-CLASS-340-309.4 ..	c 33	N81-14221 *	US-PATENT-CLASS-340-975	c 06	N84-27733 *	US-PATENT-CLASS-343-113	c 10	N71-21473 *
US-PATENT-CLASS-340-310A ..	c 33	N81-14221 *	US-PATENT-CLASS-340-975	c 06	N87-22678 *	US-PATENT-CLASS-343-113	c 07	N71-24625 *
US-PATENT-CLASS-340-310R ..	c 33	N81-14221 *	US-PATENT-CLASS-340-978	c 06	N84-27733 *	US-PATENT-CLASS-343-117R ..	c 32	N79-13214 *
US-PATENT-CLASS-340-324AD ..	c 33	N75-19517 *	US-PATENT-CLASS-340-97	c 21	N73-13643 *	US-PATENT-CLASS-343-117	c 07	N71-27056 *
US-PATENT-CLASS-340-324A ..	c 09	N72-25248 *	US-PATENT-CLASS-340-980	c 06	N84-27733 *	US-PATENT-CLASS-343-118	c 32	N79-13214 *
US-PATENT-CLASS-340-324R ..	c 26	N72-25680 *	US-PATENT-CLASS-340-988	c 35	N84-33769 *	US-PATENT-CLASS-343-119	c 44	N78-28594 *
US-PATENT-CLASS-340-324	c 08	N71-12507 *	US-PATENT-CLASS-342-105	c 32	N90-20280 *	US-PATENT-CLASS-343-12R	c 08	N72-25209 *
US-PATENT-CLASS-340-324	c 09	N71-33519 *	US-PATENT-CLASS-342-114	c 32	N90-20280 *	US-PATENT-CLASS-343-12	c 21	N70-41930 *
US-PATENT-CLASS-340-332	c 09	N72-25250 *	US-PATENT-CLASS-342-125	c 32	N88-26568 *	US-PATENT-CLASS-343-12	c 10	N72-20224 *
US-PATENT-CLASS-340-336	c 09	N71-33519 *	US-PATENT-CLASS-342-127	c 32	N88-26568 *	US-PATENT-CLASS-343-13R	c 74	N85-34629 *
US-PATENT-CLASS-340-33	c 21	N73-13643 *	US-PATENT-CLASS-342-165	c 32	N89-28672 *	US-PATENT-CLASS-343-13	c 09	N71-18598 *
US-PATENT-CLASS-340-347AD ..	c 14	N71-28991 *	US-PATENT-CLASS-342-191	c 43	N91-32546 *	US-PATENT-CLASS-343-14	c 07	N70-41680 *
US-PATENT-CLASS-340-347AD ..	c 08	N72-21200 *	US-PATENT-CLASS-342-195	c 33	N89-14384 *	US-PATENT-CLASS-343-14	c 08	N72-25209 *
US-PATENT-CLASS-340-347AD ..	c 08	N72-22163 *	US-PATENT-CLASS-342-195	c 32	N90-20280 *	US-PATENT-CLASS-343-14	c 14	N73-25461 *
US-PATENT-CLASS-340-347AD ..	c 08	N72-22166 *	US-PATENT-CLASS-342-1	c 32	N89-28672 *	US-PATENT-CLASS-343-14	c 32	N79-14267 *
US-PATENT-CLASS-340-347AD ..	c 08	N72-31226 *	US-PATENT-CLASS-342-25	c 43	N91-14642 *	US-PATENT-CLASS-343-14	c 31	N79-28370 *
US-PATENT-CLASS-340-347AD ..	c 08	N73-20217 *	US-PATENT-CLASS-342-25	c 43	N91-32546 *	US-PATENT-CLASS-343-16M	c 10	N72-22235 *
US-PATENT-CLASS-340-347AD ..	c 35	N74-17885 *	US-PATENT-CLASS-342-26	c 43	N91-21621 *	US-PATENT-CLASS-343-16M	c 44	N78-28594 *
US-PATENT-CLASS-340-347AD ..	c 35	N74-32877 *	US-PATENT-CLASS-342-26	c 43	N91-32546 *	US-PATENT-CLASS-343-16	c 09	N71-20864 *
US-PATENT-CLASS-340-347AD ..	c 33	N76-18345 *	US-PATENT-CLASS-342-352	c 04	N91-14321 *	US-PATENT-CLASS-343-16	c 10	N71-21483 *
US-PATENT-CLASS-340-347AD ..	c 60	N77-32731 *	US-PATENT-CLASS-342-357	c 04	N91-14321 *	US-PATENT-CLASS-343-17.1PF ..	c 32	N82-23376 *
US-PATENT-CLASS-340-347CC ..	c 31	N86-29055 *	US-PATENT-CLASS-342-357	c 43	N91-21621 *	US-PATENT-CLASS-343-17.2PC ..	c 32	N85-34327 *
US-PATENT-CLASS-340-347DA ..	c 08	N71-27057 *	US-PATENT-CLASS-342-374	c 32	N89-11961 *	US-PATENT-CLASS-343-17.2PC ..	c 35	N79-10391 *
US-PATENT-CLASS-340-347DA ..	c 08	N72-20176 *	US-PATENT-CLASS-342-375	c 32	N89-11961 *	US-PATENT-CLASS-343-17.2	c 07	N70-36911 *
US-PATENT-CLASS-340-347DA ..	c 08	N72-25206 *	US-PATENT-CLASS-342-418	c 04	N91-14321 *	US-PATENT-CLASS-343-17.5	c 14	N73-25461 *
US-PATENT-CLASS-340-347DA ..	c 08	N73-32081 *	US-PATENT-CLASS-342-43	c 32	N88-26568 *	US-PATENT-CLASS-343-17.5	c 32	N75-15854 *
US-PATENT-CLASS-340-347DD ..	c 10	N71-33407 *	US-PATENT-CLASS-342-51	c 32	N88-26568 *	US-PATENT-CLASS-343-17.5	c 32	N84-22820 *
US-PATENT-CLASS-340-347DD ..	c 08	N72-18184 *	US-PATENT-CLASS-342-52	c 43	N91-21621 *	US-PATENT-CLASS-343-17.7	c 07	N71-12391 *
US-PATENT-CLASS-340-347DD ..	c 08	N72-20176 *	US-PATENT-CLASS-342-54	c 09	N91-14356 *	US-PATENT-CLASS-343-17.7	c 44	N74-19870 *
US-PATENT-CLASS-340-347DD ..	c 08	N72-21197 *	US-PATENT-CLASS-342-5	c 32	N89-28672 *	US-PATENT-CLASS-343-17.7	c 32	N77-31350 *
US-PATENT-CLASS-340-347DD ..	c 08	N73-12176 *	US-PATENT-CLASS-343-DIG.2 ..	c 07	N73-24176 *	US-PATENT-CLASS-343-17.7	c 32	N79-11265 *
US-PATENT-CLASS-340-347DD ..	c 60	N76-23850 *	US-PATENT-CLASS-343-DIG.2 ..	c 33	N74-20860 *	US-PATENT-CLASS-343-17.7	c 32	N84-27951 *
US-PATENT-CLASS-340-347DD ..	c 32	N77-12239 *	US-PATENT-CLASS-343-DIG.2 ..	c 37	N86-25791 *	US-PATENT-CLASS-343-17.7	c 33	N85-21493 *
US-PATENT-CLASS-340-347DD ..	c 60	N78-17691 *	US-PATENT-CLASS-343-DIG.2 ..	c 32	N89-25363 *	US-PATENT-CLASS-343-176	c 07	N71-27056 *
US-PATENT-CLASS-340-347DD ..	c 60	N79-20751 *	US-PATENT-CLASS-343-DIG.3 ..	c 09	N72-12136 *	US-PATENT-CLASS-343-176	c 32	N76-14321 *
US-PATENT-CLASS-340-347DD ..	c 33	N82-26570 *	US-P					

US-PATENT-CLASS-343-179

REPORT NUMBER INDEX

US-PATENT-CLASS-343-179 c 32 N78-15323 *
 US-PATENT-CLASS-343-179 c 32 N79-20296 *
 US-PATENT-CLASS-343-18A c 32 N80-14281 *
 US-PATENT-CLASS-343-18B c 32 N74-12912 *
 US-PATENT-CLASS-343-18B c 32 N77-21267 *
 US-PATENT-CLASS-343-18B c 43 N80-18498 *
 US-PATENT-CLASS-343-18D c 43 N80-18498 *
 US-PATENT-CLASS-343-18 c 31 N70-37981 *
 US-PATENT-CLASS-343-18 c 07 N70-40063 *
 US-PATENT-CLASS-343-18 c 30 N70-40309 *
 US-PATENT-CLASS-343-18 c 07 N70-41678 *
 US-PATENT-CLASS-343-200 c 07 N73-16121 *
 US-PATENT-CLASS-343-204 c 07 N73-26118 *
 US-PATENT-CLASS-343-225 c 17 N78-17140 *
 US-PATENT-CLASS-343-352 c 43 N85-21723 *
 US-PATENT-CLASS-343-352 c 46 N85-21846 *
 US-PATENT-CLASS-343-356 c 04 N84-22546 *
 US-PATENT-CLASS-343-357 c 04 N84-22546 *
 US-PATENT-CLASS-343-357 c 04 N86-27270 *
 US-PATENT-CLASS-343-376 c 33 N85-21493 *
 US-PATENT-CLASS-343-418 c 04 N86-27270 *
 US-PATENT-CLASS-343-460 c 46 N85-21846 *
 US-PATENT-CLASS-343-5-CD c 43 N86-19711 *
 US-PATENT-CLASS-343-5-CM c 32 N84-34651 *
 US-PATENT-CLASS-343-5-CM c 32 N85-34327 *
 US-PATENT-CLASS-343-5-CM c 43 N86-19711 *
 US-PATENT-CLASS-343-5-DP c 32 N84-34651 *
 US-PATENT-CLASS-343-5-FT c 32 N84-34651 *
 US-PATENT-CLASS-343-5-VQ c 43 N86-19711 *
 US-PATENT-CLASS-343-5-W c 32 N85-34327 *
 US-PATENT-CLASS-343-5CM c 07 N72-21118 *
 US-PATENT-CLASS-343-5CM c 32 N77-21267 *
 US-PATENT-CLASS-343-5CM c 32 N77-32342 *
 US-PATENT-CLASS-343-5CM c 35 N79-10391 *
 US-PATENT-CLASS-343-5CM c 32 N79-14268 *
 US-PATENT-CLASS-343-5CM c 43 N80-18498 *
 US-PATENT-CLASS-343-5CM c 32 N82-12297 *
 US-PATENT-CLASS-343-5CM c 32 N83-18975 *
 US-PATENT-CLASS-343-5CM c 32 N83-19968 *
 US-PATENT-CLASS-343-5CM c 32 N83-31918 *
 US-PATENT-CLASS-343-5DP c 07 N72-11149 *
 US-PATENT-CLASS-343-5DP c 09 N73-12211 *
 US-PATENT-CLASS-343-5DP c 32 N77-32342 *
 US-PATENT-CLASS-343-5DP c 32 N82-23376 *
 US-PATENT-CLASS-343-5GC c 32 N75-24982 *
 US-PATENT-CLASS-343-5MM c 32 N77-21267 *
 US-PATENT-CLASS-343-5NA c 31 N79-28370 *
 US-PATENT-CLASS-343-5W c 35 N79-10391 *
 US-PATENT-CLASS-343-5W c 43 N80-18498 *
 US-PATENT-CLASS-343-5W c 46 N85-21846 *
 US-PATENT-CLASS-343-5BR c 32 N77-20289 *
 US-PATENT-CLASS-343-6.5R c 07 N72-12080 *
 US-PATENT-CLASS-343-6.5R c 07 N72-21118 *
 US-PATENT-CLASS-343-6.5R c 07 N72-25171 *
 US-PATENT-CLASS-343-6.5R c 08 N72-25209 *
 US-PATENT-CLASS-343-6.5R c 07 N73-25161 *
 US-PATENT-CLASS-343-6.5R c 21 N73-30641 *
 US-PATENT-CLASS-343-6.5R c 32 N74-12912 *
 US-PATENT-CLASS-343-6.5R c 32 N75-15854 *
 US-PATENT-CLASS-343-6.5R c 03 N75-30132 *
 US-PATENT-CLASS-343-6.5R c 32 N77-20289 *
 US-PATENT-CLASS-343-6.5SS c 32 N74-12912 *
 US-PATENT-CLASS-343-6.5 c 21 N71-11766 *
 US-PATENT-CLASS-343-6.5 c 10 N71-23099 *
 US-PATENT-CLASS-343-6.8-R c 04 N86-19304 *
 US-PATENT-CLASS-343-6.8R c 07 N72-12080 *
 US-PATENT-CLASS-343-6.8R c 07 N73-25161 *
 US-PATENT-CLASS-343-6.8R c 14 N73-25461 *
 US-PATENT-CLASS-343-6R c 32 N79-10264 *
 US-PATENT-CLASS-343-6 c 30 N71-16090 *
 US-PATENT-CLASS-343-7.4 c 10 N72-22235 *
 US-PATENT-CLASS-343-7.4 c 32 N79-13214 *
 US-PATENT-CLASS-343-7.5 c 07 N69-39974 * #
 US-PATENT-CLASS-343-7.5 c 09 N71-24595 *
 US-PATENT-CLASS-343-7.5 c 07 N72-11149 *
 US-PATENT-CLASS-343-7.5 c 44 N74-19870 *
 US-PATENT-CLASS-343-7.5 c 32 N82-23376 *
 US-PATENT-CLASS-343-700MS c 32 N78-24391 *
 US-PATENT-CLASS-343-700MS c 32 N80-32604 *
 US-PATENT-CLASS-343-700MS c 32 N82-11336 *
 US-PATENT-CLASS-343-703 c 09 N71-13521 *
 US-PATENT-CLASS-343-703 c 07 N71-24614 *
 US-PATENT-CLASS-343-705 c 07 N70-38200 *
 US-PATENT-CLASS-343-705 c 07 N70-40202 *
 US-PATENT-CLASS-343-705 c 31 N71-10747 *
 US-PATENT-CLASS-343-705 c 03 N76-32140 *
 US-PATENT-CLASS-343-706 c 07 N72-21117 *
 US-PATENT-CLASS-343-708 c 09 N71-22888 *
 US-PATENT-CLASS-343-708 c 07 N71-22984 *
 US-PATENT-CLASS-343-708 c 07 N71-28980 *
 US-PATENT-CLASS-343-708 c 09 N72-25247 *
 US-PATENT-CLASS-343-708 c 32 N74-20864 *
 US-PATENT-CLASS-343-708 c 32 N82-11336 *
 US-PATENT-CLASS-343-718 c 09 N71-18720 *
 US-PATENT-CLASS-343-720 c 09 N72-12136 *
 US-PATENT-CLASS-343-725 c 07 N73-28013 *

US-PATENT-CLASS-343-727 c 32 N81-14187 *
 US-PATENT-CLASS-343-727 c 32 N82-11336 *
 US-PATENT-CLASS-343-729 c 07 N73-28013 *
 US-PATENT-CLASS-343-730 c 32 N74-20863 *
 US-PATENT-CLASS-343-754 c 09 N73-19234 *
 US-PATENT-CLASS-343-755 c 33 N76-27472 *
 US-PATENT-CLASS-343-755 c 32 N81-25278 *
 US-PATENT-CLASS-343-761 c 33 N75-19516 *
 US-PATENT-CLASS-343-761 c 32 N76-21365 *
 US-PATENT-CLASS-343-762 c 07 N72-25174 *
 US-PATENT-CLASS-343-768 c 10 N71-26142 *
 US-PATENT-CLASS-343-769 c 32 N74-20864 *
 US-PATENT-CLASS-343-770 c 09 N72-31235 *
 US-PATENT-CLASS-343-770 c 33 N76-14372 *
 US-PATENT-CLASS-343-771 c 07 N71-28809 *
 US-PATENT-CLASS-343-771 c 07 N72-11148 *
 US-PATENT-CLASS-343-771 c 09 N72-21244 *
 US-PATENT-CLASS-343-771 c 07 N72-22127 *
 US-PATENT-CLASS-343-771 c 09 N72-25247 *
 US-PATENT-CLASS-343-771 c 09 N72-31235 *
 US-PATENT-CLASS-343-772 c 07 N72-20141 *
 US-PATENT-CLASS-343-772 c 32 N81-25278 *
 US-PATENT-CLASS-343-773 c 07 N72-20141 *
 US-PATENT-CLASS-343-776 c 07 N71-12396 *
 US-PATENT-CLASS-343-777 c 07 N71-27233 *
 US-PATENT-CLASS-343-777 c 07 N72-25174 *
 US-PATENT-CLASS-343-777 c 32 N89-11961 *
 US-PATENT-CLASS-343-778 c 32 N89-11961 *
 US-PATENT-CLASS-343-779 c 07 N71-11285 *
 US-PATENT-CLASS-343-779 c 10 N72-22235 *
 US-PATENT-CLASS-343-779 c 07 N72-25174 *
 US-PATENT-CLASS-343-779 c 32 N76-15329 *
 US-PATENT-CLASS-343-779 c 33 N76-27472 *
 US-PATENT-CLASS-343-779 c 32 N89-11961 *
 US-PATENT-CLASS-343-781CA c 32 N78-31321 *
 US-PATENT-CLASS-343-781P c 46 N82-12685 *
 US-PATENT-CLASS-343-781R c 32 N81-25278 *
 US-PATENT-CLASS-343-781 c 09 N70-35219 *
 US-PATENT-CLASS-343-781 c 09 N70-35382 *
 US-PATENT-CLASS-343-781 c 09 N70-35425 *
 US-PATENT-CLASS-343-781 c 07 N72-32169 *
 US-PATENT-CLASS-343-781 c 32 N74-11000 *
 US-PATENT-CLASS-343-781 c 33 N75-19516 *
 US-PATENT-CLASS-343-781 c 32 N76-21365 *
 US-PATENT-CLASS-343-782 c 07 N73-14130 *
 US-PATENT-CLASS-343-782 c 32 N78-31321 *
 US-PATENT-CLASS-343-784 c 07 N71-28980 *
 US-PATENT-CLASS-343-786 c 07 N71-15907 *
 US-PATENT-CLASS-343-786 c 07 N71-22750 *
 US-PATENT-CLASS-343-786 c 07 N71-26101 *
 US-PATENT-CLASS-343-786 c 07 N71-27233 *
 US-PATENT-CLASS-343-786 c 07 N72-20141 *
 US-PATENT-CLASS-343-786 c 10 N72-22235 *
 US-PATENT-CLASS-343-786 c 07 N72-25174 *
 US-PATENT-CLASS-343-786 c 09 N72-31235 *
 US-PATENT-CLASS-343-786 c 32 N74-20863 *
 US-PATENT-CLASS-343-786 c 32 N76-15330 *
 US-PATENT-CLASS-343-786 c 32 N76-21365 *
 US-PATENT-CLASS-343-786 c 32 N80-23524 *
 US-PATENT-CLASS-343-786 c 32 N80-29539 *
 US-PATENT-CLASS-343-786 c 32 N81-25278 *
 US-PATENT-CLASS-343-789 c 32 N81-14187 *
 US-PATENT-CLASS-343-789 c 32 N82-27558 *
 US-PATENT-CLASS-343-795 c 32 N82-11336 *
 US-PATENT-CLASS-343-797 c 09 N71-24842 *
 US-PATENT-CLASS-343-797 c 07 N72-22127 *
 US-PATENT-CLASS-343-797 c 09 N72-31235 *
 US-PATENT-CLASS-343-797 c 07 N73-28013 *
 US-PATENT-CLASS-343-797 c 32 N74-20863 *
 US-PATENT-CLASS-343-797 c 33 N76-14372 *
 US-PATENT-CLASS-343-797 c 32 N81-14187 *
 US-PATENT-CLASS-343-797 c 07 N71-27233 *
 US-PATENT-CLASS-343-803 c 07 N73-28013 *
 US-PATENT-CLASS-343-820 c 07 N71-28979 *
 US-PATENT-CLASS-343-830 c 32 N80-32604 *
 US-PATENT-CLASS-343-833 c 31 N70-34135 *
 US-PATENT-CLASS-343-837 c 07 N72-32169 *
 US-PATENT-CLASS-343-837 c 07 N73-14130 *
 US-PATENT-CLASS-343-837 c 33 N75-19516 *
 US-PATENT-CLASS-343-837 c 32 N76-15329 *
 US-PATENT-CLASS-343-837 c 32 N76-18295 *
 US-PATENT-CLASS-343-837 c 32 N78-31321 *
 US-PATENT-CLASS-343-839 c 09 N73-19234 *
 US-PATENT-CLASS-343-840 c 07 N71-27233 *
 US-PATENT-CLASS-343-840 c 09 N72-12136 *
 US-PATENT-CLASS-343-840 c 07 N72-32169 *
 US-PATENT-CLASS-343-840 c 32 N76-18295 *
 US-PATENT-CLASS-343-840 c 33 N83-36355 *
 US-PATENT-CLASS-343-844 c 32 N79-11264 *
 US-PATENT-CLASS-343-844 c 32 N80-28578 *
 US-PATENT-CLASS-343-846 c 33 N76-14372 *
 US-PATENT-CLASS-343-846 c 32 N82-11336 *
 US-PATENT-CLASS-343-853 c 07 N72-11148 *
 US-PATENT-CLASS-343-853 c 07 N72-22127 *
 US-PATENT-CLASS-343-853 c 07 N72-25174 *
 US-PATENT-CLASS-343-853 c 09 N72-31235 *

US-PATENT-CLASS-343-853 c 10 N73-16206 *
 US-PATENT-CLASS-343-853 c 32 N74-20863 *
 US-PATENT-CLASS-343-853 c 32 N74-20864 *
 US-PATENT-CLASS-343-854 c 07 N69-27460 * #
 US-PATENT-CLASS-343-854 c 07 N71-27233 *
 US-PATENT-CLASS-343-854 c 09 N73-19234 *
 US-PATENT-CLASS-343-854 c 33 N74-20860 *
 US-PATENT-CLASS-343-854 c 33 N76-27472 *
 US-PATENT-CLASS-343-854 c 32 N79-11264 *
 US-PATENT-CLASS-343-854 c 32 N80-28578 *
 US-PATENT-CLASS-343-872 c 07 N71-28980 *
 US-PATENT-CLASS-343-873 c 07 N71-19493 *
 US-PATENT-CLASS-343-873 c 09 N72-25247 *
 US-PATENT-CLASS-343-876 c 32 N76-15329 *
 US-PATENT-CLASS-343-876 c 32 N85-29118 *
 US-PATENT-CLASS-343-880 c 07 N73-26117 *
 US-PATENT-CLASS-343-880 c 18 N80-14183 *
 US-PATENT-CLASS-343-880 c 32 N89-25363 *
 US-PATENT-CLASS-343-881 c 37 N86-25789 *
 US-PATENT-CLASS-343-882 c 33 N76-32457 *
 US-PATENT-CLASS-343-882 c 37 N86-25789 *
 US-PATENT-CLASS-343-883 c 07 N73-26117 *
 US-PATENT-CLASS-343-883 c 18 N80-14183 *
 US-PATENT-CLASS-343-883 c 37 N86-25791 *
 US-PATENT-CLASS-343-884 c 07 N71-27191 *
 US-PATENT-CLASS-343-889 c 07 N73-26117 *
 US-PATENT-CLASS-343-893 c 09 N72-21244 *
 US-PATENT-CLASS-343-893 c 07 N73-28013 *
 US-PATENT-CLASS-343-895 c 09 N73-19234 *
 US-PATENT-CLASS-343-895 c 07 N73-26117 *
 US-PATENT-CLASS-343-895 c 32 N80-23524 *
 US-PATENT-CLASS-343-895 c 32 N82-27558 *
 US-PATENT-CLASS-343-9PS c 32 N83-19968 *
 US-PATENT-CLASS-343-9PS c 32 N83-31918 *
 US-PATENT-CLASS-343-9R c 32 N84-22820 *
 US-PATENT-CLASS-343-909 c 32 N74-11000 *
 US-PATENT-CLASS-343-909 c 35 N76-15435 *
 US-PATENT-CLASS-343-909 c 33 N79-28416 *
 US-PATENT-CLASS-343-909 c 32 N80-14281 *
 US-PATENT-CLASS-343-912 c 07 N72-21117 *
 US-PATENT-CLASS-343-912 c 07 N72-21227 *
 US-PATENT-CLASS-343-912 c 32 N76-18295 *
 US-PATENT-CLASS-343-915 c 31 N71-16102 *
 US-PATENT-CLASS-343-915 c 09 N71-20658 *
 US-PATENT-CLASS-343-915 c 07 N72-32169 *
 US-PATENT-CLASS-343-915 c 07 N73-14130 *
 US-PATENT-CLASS-343-915 c 07 N73-24176 *
 US-PATENT-CLASS-343-915 c 32 N76-18295 *
 US-PATENT-CLASS-343-915 c 33 N76-32457 *
 US-PATENT-CLASS-343-915 c 32 N89-25363 *
 US-PATENT-CLASS-343-9 c 32 N75-15854 *
 US-PATENT-CLASS-343-9 c 32 N79-10264 *
 US-PATENT-CLASS-346-107A c 14 N72-18411 *
 US-PATENT-CLASS-346-107 c 23 N71-23976 *
 US-PATENT-CLASS-346-108 c 35 N74-15831 *
 US-PATENT-CLASS-346-110 c 14 N73-32322 *
 US-PATENT-CLASS-346-138 c 21 N73-13644 *
 US-PATENT-CLASS-346-138 c 35 N74-15831 *
 US-PATENT-CLASS-346-1 c 12 N71-20815 *
 US-PATENT-CLASS-346-1 c 09 N72-21246 *
 US-PATENT-CLASS-346-23 c 14 N72-18411 *
 US-PATENT-CLASS-346-24 c 35 N74-15831 *
 US-PATENT-CLASS-346-29 c 09 N72-21246 *
 US-PATENT-CLASS-346-33R c 35 N74-32877 *
 US-PATENT-CLASS-346-44 c 09 N69-21467 * #
 US-PATENT-CLASS-346-50 c 14 N71-21006 *
 US-PATENT-CLASS-346-74MD c 21 N73-13644 *
 US-PATENT-CLASS-346-74MT c 35 N79-16246 *
 US-PATENT-CLASS-346R c 73 N77-18891 *
 US-PATENT-CLASS-349 c 25 N79-28253 *
 US-PATENT-CLASS-35-10.2 c 14 N71-15621 *
 US-PATENT-CLASS-35-12C c 14 N73-27377 *
 US-PATENT-CLASS-35-12C c 09 N75-15662 *
 US-PATENT-CLASS-35-12C c 74 N79-13855 *
 US-PATENT-CLASS-35-12E c 09 N74-30597 *
 US-PATENT-CLASS-35-12E c 09 N79-31228 *
 US-PATENT-CLASS-35-12H c 09 N79-31228 *
 US-PATENT-CLASS-35-12N c 09 N76-24280 *
 US-PATENT-CLASS-35-12N c 09 N78-18083 *
 US-PATENT-CLASS-35-12N c 74 N79-13855 *
 US-PATENT-CLASS-35-12 c 11 N70-34815 *
 US-PATENT-CLASS-35-12 c 31 N70-34966 *
 US-PATENT-CLASS-35-12 c 11 N71-10746 *
 US-PATENT-CLASS-35-12 c 11 N71-10748 *
 US-PATENT-CLASS-35-12 c 11 N71-10776 *
 US-PATENT-CLASS-35-12 c 11 N71-18773 *
 US-PATENT-CLASS-35-12 c 11 N71-19494 *
 US-PATENT-CLASS-35-12 c 11 N71-21474 *
 US-PATENT-CLASS-35-12 c 18 N76-14186 *
 US-PATENT-CLASS-35-17 c 05 N71-24606 *
 US-PATENT-CLASS-35-19 c 10 N71-27365 *
 US-PATENT-CLASS-35-22R c 05 N73-13114 *
 US-PATENT-CLASS-35-29 c 11 N71-16028 *
 US-PATENT-CLASS-35-29 c 05 N71-28619 *
 US-PATENT-CLASS-35-35A c 71 N74-21014 *
 US-PATENT-CLASS-35-45 c 14 N70-35394 *

REPORT NUMBER INDEX

US-PATENT-CLASS-356-129

US-PATENT-CLASS-35-49	c 12	N69-39988 *	US-PATENT-CLASS-350-293	c 12	N76-15189 *	US-PATENT-CLASS-350-55	c 89	N79-10969 *
US-PATENT-CLASS-35-8	c 05	N72-16015 *	US-PATENT-CLASS-350-293	c 44	N76-24696 *	US-PATENT-CLASS-350-55	c 74	N80-33210 *
US-PATENT-CLASS-350-100	c 36	N77-25501 *	US-PATENT-CLASS-350-293	c 44	N78-10554 *	US-PATENT-CLASS-350-572	c 36	N88-14350 *
US-PATENT-CLASS-350-102	c 23	N71-29123 *	US-PATENT-CLASS-350-293	c 44	N79-14529 *	US-PATENT-CLASS-350-573	c 36	N88-14350 *
US-PATENT-CLASS-350-102	c 36	N77-25501 *	US-PATENT-CLASS-350-294	c 89	N79-10969 *	US-PATENT-CLASS-350-576	c 35	N91-14591 *
US-PATENT-CLASS-350-102	c 18	N91-27200 *	US-PATENT-CLASS-350-294	c 44	N79-24432 *	US-PATENT-CLASS-350-580	c 74	N86-20125 *
US-PATENT-CLASS-350-107	c 18	N91-27200 *	US-PATENT-CLASS-350-294	c 32	N80-24510 *	US-PATENT-CLASS-350-58	c 14	N71-15604 *
US-PATENT-CLASS-350-138	c 23	N72-27728 *	US-PATENT-CLASS-350-295	c 44	N77-32583 *	US-PATENT-CLASS-350-6.5	c 32	N80-24510 *
US-PATENT-CLASS-350-145	c 74	N77-20882 *	US-PATENT-CLASS-350-295	c 44	N80-14473 *	US-PATENT-CLASS-350-6.5	c 74	N87-21679 *
US-PATENT-CLASS-350-147	c 14	N72-27409 *	US-PATENT-CLASS-350-296	c 44	N79-24432 *	US-PATENT-CLASS-350-6.6	c 32	N80-24510 *
US-PATENT-CLASS-350-150	c 26	N72-25680 *	US-PATENT-CLASS-350-296	c 44	N80-14473 *	US-PATENT-CLASS-350-619	c 74	N85-23396 *
US-PATENT-CLASS-350-150	c 36	N76-18427 *	US-PATENT-CLASS-350-299	c 74	N74-21304 *	US-PATENT-CLASS-350-6	c 14	N69-27461 *
US-PATENT-CLASS-350-151	c 36	N74-13205 *	US-PATENT-CLASS-350-299	c 44	N76-24696 *	US-PATENT-CLASS-350-6	c 36	N74-15145 *
US-PATENT-CLASS-350-151	c 35	N78-29421 *	US-PATENT-CLASS-350-299	c 74	N77-28932 *	US-PATENT-CLASS-350-79	c 14	N72-32452 *
US-PATENT-CLASS-350-157	c 74	N79-14891 *	US-PATENT-CLASS-350-299	c 44	N78-10554 *	US-PATENT-CLASS-350-7	c 74	N74-15095 *
US-PATENT-CLASS-350-159	c 74	N78-17865 *	US-PATENT-CLASS-350-299	c 44	N78-31526 *	US-PATENT-CLASS-350-86	c 14	N72-22445 *
US-PATENT-CLASS-350-160R	c 14	N72-25410 *	US-PATENT-CLASS-350-299	c 44	N79-11471 *	US-PATENT-CLASS-350-96.10	c 74	N84-11921 *
US-PATENT-CLASS-350-160R	c 26	N72-25680 *	US-PATENT-CLASS-350-299	c 44	N79-24433 *	US-PATENT-CLASS-350-96.15	c 74	N84-11921 *
US-PATENT-CLASS-350-160R	c 36	N76-18427 *	US-PATENT-CLASS-350-299	c 36	N84-14509 *	US-PATENT-CLASS-350-96.15	c 74	N85-29749 *
US-PATENT-CLASS-350-161	c 26	N72-27784 *	US-PATENT-CLASS-350-2	c 23	N71-30027 *	US-PATENT-CLASS-350-96.16	c 74	N83-29032 *
US-PATENT-CLASS-350-161	c 36	N75-31427 *	US-PATENT-CLASS-350-3.5	c 16	N71-15551 *	US-PATENT-CLASS-350-96.21	c 74	N89-25689 *
US-PATENT-CLASS-350-162.13	c 74	N89-14078 *	US-PATENT-CLASS-350-3.5	c 16	N71-15565 *	US-PATENT-CLASS-350-96.25	c 33	N81-29342 *
US-PATENT-CLASS-350-162.13	c 74	N91-25840 *	US-PATENT-CLASS-350-3.5	c 16	N71-15567 *	US-PATENT-CLASS-350-96.25	c 74	N89-25689 *
US-PATENT-CLASS-350-162R	c 74	N80-21140 *	US-PATENT-CLASS-350-3.5	c 16	N71-26154 *	US-PATENT-CLASS-350-96.29	c 74	N91-21871 *
US-PATENT-CLASS-350-162SF	c 23	N73-30666 *	US-PATENT-CLASS-350-3.5	c 16	N71-29131 *	US-PATENT-CLASS-350-96R	c 60	N77-14751 *
US-PATENT-CLASS-350-162SF	c 74	N76-31998 *	US-PATENT-CLASS-350-3.5	c 14	N72-17324 *	US-PATENT-CLASS-350-96R	c 60	N77-32731 *
US-PATENT-CLASS-350-162SF	c 74	N77-28932 *	US-PATENT-CLASS-350-3.5	c 16	N73-30476 *	US-PATENT-CLASS-350-96R	c 60	N78-10709 *
US-PATENT-CLASS-350-162SF	c 36	N77-32478 *	US-PATENT-CLASS-350-3.5	c 35	N74-15146 *	US-PATENT-CLASS-350-96WG	c 36	N75-31427 *
US-PATENT-CLASS-350-162	c 14	N72-17323 *	US-PATENT-CLASS-350-3.5	c 35	N74-17153 *	US-PATENT-CLASS-350-96WG	c 36	N76-18428 *
US-PATENT-CLASS-350-163	c 36	N88-14350 *	US-PATENT-CLASS-350-3.5	c 35	N74-26946 *	US-PATENT-CLASS-350-96WG	c 36	N76-24553 *
US-PATENT-CLASS-350-165	c 27	N78-31233 *	US-PATENT-CLASS-350-3.5	c 35	N75-25124 *	US-PATENT-CLASS-350-96	c 07	N71-26291 *
US-PATENT-CLASS-350-166	c 44	N83-34448 *	US-PATENT-CLASS-350-3.5	c 35	N75-27328 *	US-PATENT-CLASS-350-97	c 18	N91-27200 *
US-PATENT-CLASS-350-168	c 74	N85-23396 *	US-PATENT-CLASS-350-3.5	c 35	N76-18402 *	US-PATENT-CLASS-351-166	c 74	N78-32854 *
US-PATENT-CLASS-350-16	c 14	N72-22444 *	US-PATENT-CLASS-350-3.5	c 35	N78-17357 *	US-PATENT-CLASS-351-203	c 52	N89-16256 *
US-PATENT-CLASS-350-170	c 73	N78-32848 *	US-PATENT-CLASS-350-3.5	c 38	N78-32447 *	US-PATENT-CLASS-351-206	c 52	N87-24874 *
US-PATENT-CLASS-350-170	c 74	N83-10900 *	US-PATENT-CLASS-350-3.64	c 35	N91-13694 *	US-PATENT-CLASS-351-208	c 52	N87-24874 *
US-PATENT-CLASS-350-171	c 23	N72-23695 *	US-PATENT-CLASS-350-3.68	c 74	N91-25840 *	US-PATENT-CLASS-351-237	c 52	N89-16256 *
US-PATENT-CLASS-350-171	c 74	N83-17305 *	US-PATENT-CLASS-350-3.73	c 36	N87-23960 *	US-PATENT-CLASS-351-23	c 05	N73-26072 *
US-PATENT-CLASS-350-172	c 74	N84-23248 *	US-PATENT-CLASS-350-3.81	c 36	N87-23960 *	US-PATENT-CLASS-351-23	c 52	N76-30793 *
US-PATENT-CLASS-350-173	c 73	N78-32848 *	US-PATENT-CLASS-350-301	c 74	N81-17886 *	US-PATENT-CLASS-351-30	c 05	N73-26072 *
US-PATENT-CLASS-350-173	c 74	N83-36898 *	US-PATENT-CLASS-350-310	c 11	N69-24321 *	US-PATENT-CLASS-351-30	c 52	N76-30793 *
US-PATENT-CLASS-350-173	c 74	N84-23248 *	US-PATENT-CLASS-350-310	c 23	N71-24868 *	US-PATENT-CLASS-351-36	c 05	N73-26072 *
US-PATENT-CLASS-350-174	c 74	N77-20882 *	US-PATENT-CLASS-350-310	c 23	N71-29123 *	US-PATENT-CLASS-351-36	c 52	N76-30793 *
US-PATENT-CLASS-350-174	c 73	N78-32848 *	US-PATENT-CLASS-350-310	c 23	N71-33229 *	US-PATENT-CLASS-351-38	c 54	N75-27759 *
US-PATENT-CLASS-350-174	c 36	N88-14350 *	US-PATENT-CLASS-350-310	c 23	N72-22673 *	US-PATENT-CLASS-352-169	c 14	N73-14427 *
US-PATENT-CLASS-350-175E	c 74	N80-27185 *	US-PATENT-CLASS-350-310	c 74	N77-28933 *	US-PATENT-CLASS-352-171	c 35	N82-26628 *
US-PATENT-CLASS-350-175FS	c 14	N72-25414 *	US-PATENT-CLASS-350-311	c 74	N75-25706 *	US-PATENT-CLASS-352-84	c 16	N71-33410 *
US-PATENT-CLASS-350-175NG	c 27	N78-31233 *	US-PATENT-CLASS-350-312	c 16	N72-12440 *	US-PATENT-CLASS-352-84	c 14	N72-18411 *
US-PATENT-CLASS-350-189	c 23	N71-24857 *	US-PATENT-CLASS-350-312	c 74	N85-29750 *	US-PATENT-CLASS-353-54	c 34	N74-23066 *
US-PATENT-CLASS-350-199	c 14	N73-30393 *	US-PATENT-CLASS-350-315	c 74	N86-29650 *	US-PATENT-CLASS-353-61	c 34	N74-23066 *
US-PATENT-CLASS-350-19	c 14	N72-22441 *	US-PATENT-CLASS-350-316	c 27	N83-36220 *	US-PATENT-CLASS-354-118	c 74	N81-17886 *
US-PATENT-CLASS-350-1	c 23	N69-24332 *	US-PATENT-CLASS-350-318	c 74	N86-29650 *	US-PATENT-CLASS-354-217	c 35	N82-26628 *
US-PATENT-CLASS-350-1	c 07	N71-29065 *	US-PATENT-CLASS-350-319	c 74	N85-29750 *	US-PATENT-CLASS-354-234	c 33	N74-20861 *
US-PATENT-CLASS-350-1	c 16	N72-12440 *	US-PATENT-CLASS-350-319	c 74	N86-20125 *	US-PATENT-CLASS-354-234	c 70	N74-21300 *
US-PATENT-CLASS-350-1	c 24	N76-24363 *	US-PATENT-CLASS-350-319	c 09	N87-14355 *	US-PATENT-CLASS-354-289	c 35	N82-26628 *
US-PATENT-CLASS-350-1	c 74	N78-15879 *	US-PATENT-CLASS-350-320	c 74	N77-28933 *	US-PATENT-CLASS-354-479	c 74	N86-28732 *
US-PATENT-CLASS-350-202	c 23	N73-20741 *	US-PATENT-CLASS-350-320	c 44	N77-32583 *	US-PATENT-CLASS-354-62	c 52	N87-24874 *
US-PATENT-CLASS-350-202	c 74	N77-28932 *	US-PATENT-CLASS-350-320	c 73	N78-32848 *	US-PATENT-CLASS-354-77	c 74	N79-20856 *
US-PATENT-CLASS-350-203	c 14	N72-25409 *	US-PATENT-CLASS-350-320	c 44	N79-14529 *	US-PATENT-CLASS-355-18	c 14	N73-33361 *
US-PATENT-CLASS-350-204	c 14	N73-30393 *	US-PATENT-CLASS-350-320	c 74	N85-29749 *	US-PATENT-CLASS-356-103	c 14	N71-28994 *
US-PATENT-CLASS-350-204	c 74	N78-17866 *	US-PATENT-CLASS-350-320	c 35	N91-13694 *	US-PATENT-CLASS-356-103	c 36	N75-15028 *
US-PATENT-CLASS-350-211	c 44	N76-14602 *	US-PATENT-CLASS-350-321	c 74	N85-29750 *	US-PATENT-CLASS-356-103	c 74	N78-13874 *
US-PATENT-CLASS-350-213	c 14	N71-15622 *	US-PATENT-CLASS-350-331-R	c 74	N89-14078 *	US-PATENT-CLASS-356-104	c 16	N71-24074 *
US-PATENT-CLASS-350-226	c 74	N80-27185 *	US-PATENT-CLASS-350-335	c 74	N86-21348 *	US-PATENT-CLASS-356-104	c 74	N78-13874 *
US-PATENT-CLASS-350-236	c 74	N74-15095 *	US-PATENT-CLASS-350-337	c 74	N89-14078 *	US-PATENT-CLASS-356-106LR	c 36	N75-19653 *
US-PATENT-CLASS-350-23	c 14	N72-22441 *	US-PATENT-CLASS-350-342	c 76	N85-33826 *	US-PATENT-CLASS-356-106R	c 72	N74-19310 *
US-PATENT-CLASS-350-253	c 35	N77-27366 *	US-PATENT-CLASS-350-342	c 74	N89-14078 *	US-PATENT-CLASS-356-106R	c 36	N76-14447 *
US-PATENT-CLASS-350-25	c 74	N80-21138 *	US-PATENT-CLASS-350-353	c 74	N83-19597 *	US-PATENT-CLASS-356-106R	c 35	N77-10493 *
US-PATENT-CLASS-350-269	c 33	N74-20861 *	US-PATENT-CLASS-350-353	c 74	N91-26918 *	US-PATENT-CLASS-356-106R	c 47	N77-10753 *
US-PATENT-CLASS-350-26	c 14	N72-22441 *	US-PATENT-CLASS-350-354	c 32	N86-20647 *	US-PATENT-CLASS-356-106S	c 23	N73-13661 *
US-PATENT-CLASS-350-270	c 70	N74-21300 *	US-PATENT-CLASS-350-354	c 74	N89-14077 *	US-PATENT-CLASS-356-106S	c 35	N76-31490 *
US-PATENT-CLASS-350-275	c 09	N71-19479 *	US-PATENT-CLASS-350-354	c 35	N91-13694 *	US-PATENT-CLASS-356-106S	c 35	N78-18391 *
US-PATENT-CLASS-350-276-R	c 74	N86-20125 *	US-PATENT-CLASS-350-354	c 74	N91-26918 *	US-PATENT-CLASS-356-106S	c 35	N74-23040 *
US-PATENT-CLASS-350-276R	c 74	N86-28732 *	US-PATENT-CLASS-350-356	c 74	N90-22383 *	US-PATENT-CLASS-356-106	c 14	N71-17627 *
US-PATENT-CLASS-350-285	c 14	N71-15605 *	US-PATENT-CLASS-350-358	c 36	N82-29589 *	US-PATENT-CLASS-356-106	c 14	N71-17655 *
US-PATENT-CLASS-350-285	c 14	N71-17662 *	US-PATENT-CLASS-350-358	c 74	N91-26918 *	US-PATENT-CLASS-356-106	c 14	N71-27215 *
US-PATENT-CLASS-350-285	c 19	N71-26674 *	US-PATENT-CLASS-350-359	c 36	N80-16321 *	US-PATENT-CLASS-356-106	c 14	N73-12446 *
US-PATENT-CLASS-350-285	c 15	N72-11386 *	US-PATENT-CLASS-350-359	c 14	N72-22441 *	US-PATENT-CLASS-356-106	c 35	N74-15146 *
US-PATENT-CLASS-350-285	c 16	N73-33397 *	US-PATENT-CLASS-350-36	c 14	N72-22441 *	US-PATENT-CLASS-356-107	c 16	N71-24170 *
US-PATENT-CLASS-350-285	c 74	N74-15095 *	US-PATENT-CLASS-350-370	c 35	N81-33448 *	US-PATENT-CLASS-356-108	c 26	N73-26751 *
US-PATENT-CLASS-350-285	c 74	N80-21138 *	US-PATENT-CLASS-350-443	c 74	N84-23248 *	US-PATENT-CLASS-356-108	c 16	N73-30476 *
US-PATENT-CLASS-350-286	c 07	N71-29065 *	US-PATENT-CLASS-350-445	c 74	N83-36898 *	US-PATENT-CLASS-356-109	c 16	N73-30476 *
US-PATENT-CLASS-350-286	c 73	N78-32848 *	US-PATENT-CLASS-350-448	c 74	N86-20125 *	US-PATENT-CLASS-356-110	c 14	N73-25463 *
US-PATENT-CLASS-350-286	c 74	N83-10900 *	US-PATENT-CLASS-350-453	c 36	N82-32712 *	US-PATENT-CLASS-356-110	c 35	N78-18391 *
US-PATENT-CLASS-350-287	c 15	N72-11386 *	US-PATENT-CLASS-350-486	c 74	N83-13978 *	US-PATENT-CLASS-356-112	c 72	N74-19310 *
US-PATENT-CLASS-350-287	c 74	N83-13978 *	US-PATENT-CLASS-350-49	c 14	N72-22441 *	US-PATENT-CLASS-356-113	c 14	N72-17323 *
US-PATENT-CLASS-350-287	c 35	N91-14590 *	US-PATENT-CLASS-350-500	c 35	N91-14590 *	US-PATENT-CLASS-356-113	c 35	N74-23040 *
US-PATENT-CLASS-350-288	c 23	N71-29123 *	US-PATENT-CLASS-350-505	c 74	N85-23396 *	US-PATENT-CLASS-356-114	c 14	N73-12446 *
US-PATENT-CLASS-350-288	c 12	N76-15189 *	US-PATENT-CLASS-350-505	c 74	N86-28732 *	US-PATENT-CLASS-356-114	c 35	N76-31490 *
US-PATENT-CLASS-350-288	c 74	N77-28933 *	US-PATENT-CLASS-350-529	c 37	N91-21545 *	US-PATENT-CLASS-356-117	c 23	N71-16101 *
US-PATENT-CLASS-350-288	c 44	N79-11471 *	US-PATENT-CLASS-350-52	c 14	N72-22441 *	US-PATENT-CLASS-356-120	c 74	N78-27904 *
US-PATENT-CLASS-350-288	c 44	N79-24433 *	US-PATENT-CLASS-350-52	c 14	N72-22444 *	US-PATENT-CLASS-356-123	c 74	N76-19935 *
US-PATENT-CLASS-350-292	c 35	N75-12273 *	US-PATENT-CLASS-350-537	c 74	N86-20125 *	US-PATENT-CLASS-356-124	c 74	N76-19935 *
US-PATENT-CLASS-350-292	c 44	N79-14529 *	US-PATENT-CLASS-350-55	c 23	N71-33229 *	US-PATENT-CLASS-356-124	c 74	N79-11865 *
US-PATENT-CLASS-350-292	c 44	N79-24432 *	US-PATENT-CLASS-350-55	c 14	N73-30393 *	US-PATENT-CLASS-356-128	c 76	N87-25862 *
US-PATENT-CLASS-350-293	c 16	N73-16536 *	US-PATENT-CLASS-350-55	c 23	N73-30666 *	US-PATENT-CLASS-356-129	c 74	N79-20856 *

US-PATENT-CLASS-356-129	c 76	N87-25862 *	US-PATENT-CLASS-356-246	c 74	N87-14971 *	US-PATENT-CLASS-356-4	c 35	N75-15014 *
US-PATENT-CLASS-356-138	c 14	N72-20379 *	US-PATENT-CLASS-356-248	c 14	N72-22444 *	US-PATENT-CLASS-356-4	c 36	N83-34304 *
US-PATENT-CLASS-356-138	c 16	N73-33397 *	US-PATENT-CLASS-356-256	c 36	N87-28006 *	US-PATENT-CLASS-356-4	c 36	N88-24958 *
US-PATENT-CLASS-356-141	c 14	N72-27409 *	US-PATENT-CLASS-356-28.5	c 32	N80-24510 *	US-PATENT-CLASS-356-51	c 06	N72-31141 *
US-PATENT-CLASS-356-141	c 14	N73-28490 *	US-PATENT-CLASS-356-28.5	c 36	N81-24422 *	US-PATENT-CLASS-356-51	c 35	N75-30502 *
US-PATENT-CLASS-356-141	c 36	N74-21091 *	US-PATENT-CLASS-356-28.5	c 36	N82-32712 *	US-PATENT-CLASS-356-51	c 35	N83-21311 *
US-PATENT-CLASS-356-141	c 39	N74-30886 *	US-PATENT-CLASS-356-28.5	c 35	N86-32697 *	US-PATENT-CLASS-356-51	c 35	N84-34705 *
US-PATENT-CLASS-356-141	c 74	N77-22951 *	US-PATENT-CLASS-356-28.5	c 35	N87-14669 *	US-PATENT-CLASS-356-51	c 36	N87-28006 *
US-PATENT-CLASS-356-141	c 09	N91-14356 *	US-PATENT-CLASS-356-28.5	c 36	N87-17026 *	US-PATENT-CLASS-356-5	c 07	N73-26119 *
US-PATENT-CLASS-356-141	c 35	N91-15512 *	US-PATENT-CLASS-356-28.5	c 36	N88-14350 *	US-PATENT-CLASS-356-5	c 36	N74-15145 *
US-PATENT-CLASS-356-147	c 89	N74-30886 *	US-PATENT-CLASS-356-28.5	c 33	N89-14384 *	US-PATENT-CLASS-356-5	c 36	N75-15028 *
US-PATENT-CLASS-356-148	c 16	N73-33397 *	US-PATENT-CLASS-356-28.5	c 33	N89-14385 *	US-PATENT-CLASS-356-5	c 32	N82-23376 *
US-PATENT-CLASS-356-150	c 15	N71-28740 *	US-PATENT-CLASS-356-28.5	c 36	N90-25340 *	US-PATENT-CLASS-356-5	c 74	N85-34629 *
US-PATENT-CLASS-356-150	c 74	N80-21138 *	US-PATENT-CLASS-356-28	c 21	N71-19212 *	US-PATENT-CLASS-356-5	c 74	N86-32266 *
US-PATENT-CLASS-356-152	c 15	N71-28740 *	US-PATENT-CLASS-356-28	c 16	N71-24828 *	US-PATENT-CLASS-356-5	c 32	N87-14559 *
US-PATENT-CLASS-356-152	c 16	N72-13437 *	US-PATENT-CLASS-356-28	c 72	N74-19310 *	US-PATENT-CLASS-356-5	c 35	N91-15512 *
US-PATENT-CLASS-356-152	c 14	N72-20379 *	US-PATENT-CLASS-356-28	c 36	N75-15028 *	US-PATENT-CLASS-356-5	c 74	N91-27957 *
US-PATENT-CLASS-356-152	c 14	N72-27409 *	US-PATENT-CLASS-356-28	c 35	N75-16783 *	US-PATENT-CLASS-356-71	c 66	N76-19888 *
US-PATENT-CLASS-356-152	c 14	N73-25462 *	US-PATENT-CLASS-356-28	c 36	N76-14447 *	US-PATENT-CLASS-356-72	c 14	N71-23268 *
US-PATENT-CLASS-356-152	c 36	N74-15145 *	US-PATENT-CLASS-356-28	c 36	N77-25501 *	US-PATENT-CLASS-356-72	c 33	N73-27796 *
US-PATENT-CLASS-356-152	c 36	N74-21091 *	US-PATENT-CLASS-356-28	c 74	N78-17866 *	US-PATENT-CLASS-356-72	c 38	N78-32447 *
US-PATENT-CLASS-356-152	c 74	N74-21304 *	US-PATENT-CLASS-356-28	c 35	N79-18296 *	US-PATENT-CLASS-356-72	c 74	N80-33210 *
US-PATENT-CLASS-356-152	c 74	N77-22951 *	US-PATENT-CLASS-356-28	c 36	N80-16321 *	US-PATENT-CLASS-356-72	c 35	N86-32697 *
US-PATENT-CLASS-356-152	c 74	N80-21138 *	US-PATENT-CLASS-356-28	c 36	N87-17026 *	US-PATENT-CLASS-356-73.1	c 76	N90-24150 *
US-PATENT-CLASS-356-152	c 37	N81-27519 *	US-PATENT-CLASS-356-28	c 36	N90-25340 *	US-PATENT-CLASS-356-73	c 75	N74-30156 *
US-PATENT-CLASS-356-152	c 09	N91-14356 *	US-PATENT-CLASS-356-300	c 43	N79-17288 *	US-PATENT-CLASS-356-73	c 38	N78-32447 *
US-PATENT-CLASS-356-152	c 35	N91-15512 *	US-PATENT-CLASS-356-301	c 35	N87-14669 *	US-PATENT-CLASS-356-73	c 35	N84-33766 *
US-PATENT-CLASS-356-153	c 15	N71-28740 *	US-PATENT-CLASS-356-311	c 35	N86-25753 *	US-PATENT-CLASS-356-73	c 09	N86-32447 *
US-PATENT-CLASS-356-153	c 23	N71-29125 *	US-PATENT-CLASS-356-318	c 35	N86-25753 *	US-PATENT-CLASS-356-73	c 35	N86-32697 *
US-PATENT-CLASS-356-153	c 16	N73-33397 *	US-PATENT-CLASS-356-323	c 74	N85-23396 *	US-PATENT-CLASS-356-73	c 76	N90-24150 *
US-PATENT-CLASS-356-153	c 18	N76-14186 *	US-PATENT-CLASS-356-328	c 35	N80-26635 *	US-PATENT-CLASS-356-74	c 30	N71-15990 *
US-PATENT-CLASS-356-154	c 15	N71-26673 *	US-PATENT-CLASS-356-32	c 14	N72-11364 *	US-PATENT-CLASS-356-74	c 35	N84-33766 *
US-PATENT-CLASS-356-159	c 36	N78-14380 *	US-PATENT-CLASS-356-32	c 32	N73-20740 *	US-PATENT-CLASS-356-76	c 23	N71-26206 *
US-PATENT-CLASS-356-160	c 36	N78-14380 *	US-PATENT-CLASS-356-32	c 39	N81-25400 *	US-PATENT-CLASS-356-76	c 14	N71-29041 *
US-PATENT-CLASS-356-161	c 26	N73-26751 *	US-PATENT-CLASS-356-330	c 74	N85-23396 *	US-PATENT-CLASS-356-83	c 35	N75-19613 *
US-PATENT-CLASS-356-162	c 66	N76-19888 *	US-PATENT-CLASS-356-331	c 74	N85-23396 *	US-PATENT-CLASS-356-85	c 37	N74-18123 *
US-PATENT-CLASS-356-165	c 38	N78-17396 *	US-PATENT-CLASS-356-334	c 74	N80-21140 *	US-PATENT-CLASS-356-85	c 75	N74-30156 *
US-PATENT-CLASS-356-166	c 14	N71-23175 *	US-PATENT-CLASS-356-345	c 74	N81-17888 *	US-PATENT-CLASS-356-87	c 75	N74-30156 *
US-PATENT-CLASS-356-167	c 14	N72-11364 *	US-PATENT-CLASS-356-345	c 74	N81-29963 *	US-PATENT-CLASS-356-96	c 35	N75-19613 *
US-PATENT-CLASS-356-167	c 66	N76-19888 *	US-PATENT-CLASS-356-345	c 36	N84-14509 *	US-PATENT-CLASS-356-97	c 35	N77-14411 *
US-PATENT-CLASS-356-167	c 74	N78-27904 *	US-PATENT-CLASS-356-345	c 74	N86-21348 *	US-PATENT-CLASS-357-12	c 33	N85-21492 *
US-PATENT-CLASS-356-169	c 60	N78-10709 *	US-PATENT-CLASS-356-345	c 74	N91-21871 *	US-PATENT-CLASS-357-13	c 35	N90-17118 *
US-PATENT-CLASS-356-171	c 74	N77-22950 *	US-PATENT-CLASS-356-346	c 35	N80-20563 *	US-PATENT-CLASS-357-15	c 44	N78-13526 *
US-PATENT-CLASS-356-172	c 16	N73-33397 *	US-PATENT-CLASS-356-346	c 74	N81-29963 *	US-PATENT-CLASS-357-15	c 44	N79-11467 *
US-PATENT-CLASS-356-172	c 36	N74-21091 *	US-PATENT-CLASS-356-347	c 35	N84-22929 *	US-PATENT-CLASS-357-15	c 44	N81-29525 *
US-PATENT-CLASS-356-172	c 74	N77-22951 *	US-PATENT-CLASS-356-347	c 35	N89-26202 *	US-PATENT-CLASS-357-15	c 76	N86-20150 *
US-PATENT-CLASS-356-17	c 14	N72-21409 *	US-PATENT-CLASS-356-349	c 36	N82-16396 *	US-PATENT-CLASS-357-15	c 33	N91-14551 *
US-PATENT-CLASS-356-180	c 35	N74-27860 *	US-PATENT-CLASS-356-350	c 35	N81-33448 *	US-PATENT-CLASS-357-15	c 33	N91-21434 *
US-PATENT-CLASS-356-186	c 35	N75-19613 *	US-PATENT-CLASS-356-350	c 74	N87-23259 *	US-PATENT-CLASS-357-15	c 33	N92-16197 *
US-PATENT-CLASS-356-188	c 35	N84-33766 *	US-PATENT-CLASS-356-351	c 35	N81-33448 *	US-PATENT-CLASS-357-16	c 44	N78-13526 *
US-PATENT-CLASS-356-189	c 35	N75-19613 *	US-PATENT-CLASS-356-351	c 35	N85-30282 *	US-PATENT-CLASS-357-16	c 44	N79-11467 *
US-PATENT-CLASS-356-189	c 35	N84-33766 *	US-PATENT-CLASS-356-351	c 74	N92-22034 *	US-PATENT-CLASS-357-16	c 74	N91-25841 *
US-PATENT-CLASS-356-18	c 14	N72-21409 *	US-PATENT-CLASS-356-352	c 74	N81-17888 *	US-PATENT-CLASS-357-17	c 36	N85-30305 *
US-PATENT-CLASS-356-197	c 37	N74-18123 *	US-PATENT-CLASS-356-353	c 74	N83-32577 *	US-PATENT-CLASS-357-17	c 74	N91-25841 *
US-PATENT-CLASS-356-199	c 36	N78-14380 *	US-PATENT-CLASS-356-356	c 36	N81-24422 *	US-PATENT-CLASS-357-22	c 33	N79-11314 *
US-PATENT-CLASS-356-1	c 36	N83-34304 *	US-PATENT-CLASS-356-357	c 74	N83-21949 *	US-PATENT-CLASS-357-22	c 33	N79-12321 *
US-PATENT-CLASS-356-1	c 36	N88-24958 *	US-PATENT-CLASS-356-358	c 74	N81-17888 *	US-PATENT-CLASS-357-22	c 33	N90-20282 *
US-PATENT-CLASS-356-1	c 09	N91-14356 *	US-PATENT-CLASS-356-358	c 36	N81-24422 *	US-PATENT-CLASS-357-23.12	c 76	N87-13313 *
US-PATENT-CLASS-356-201	c 75	N74-30156 *	US-PATENT-CLASS-356-358	c 35	N85-30282 *	US-PATENT-CLASS-357-23.1	c 76	N87-13313 *
US-PATENT-CLASS-356-201	c 35	N77-14411 *	US-PATENT-CLASS-356-360	c 74	N92-22034 *	US-PATENT-CLASS-357-23.6	c 33	N86-19516 *
US-PATENT-CLASS-356-202	c 26	N73-26751 *	US-PATENT-CLASS-356-361	c 35	N89-26202 *	US-PATENT-CLASS-357-231	c 33	N88-14271 *
US-PATENT-CLASS-356-203	c 14	N71-26788 *	US-PATENT-CLASS-356-363	c 74	N83-32577 *	US-PATENT-CLASS-357-23	c 76	N75-25730 *
US-PATENT-CLASS-356-204	c 35	N77-14411 *	US-PATENT-CLASS-356-363	c 74	N92-22034 *	US-PATENT-CLASS-357-23	c 33	N79-12321 *
US-PATENT-CLASS-356-204	c 74	N78-17867 *	US-PATENT-CLASS-356-369	c 35	N80-28687 *	US-PATENT-CLASS-357-23	c 33	N81-26360 *
US-PATENT-CLASS-356-207	c 45	N76-17656 *	US-PATENT-CLASS-356-36	c 23	N71-16365 *	US-PATENT-CLASS-357-24	c 33	N75-31331 *
US-PATENT-CLASS-356-208	c 74	N78-33913 *	US-PATENT-CLASS-356-375	c 74	N91-32922 *	US-PATENT-CLASS-357-24	c 33	N88-14271 *
US-PATENT-CLASS-356-209	c 23	N71-16341 *	US-PATENT-CLASS-356-376	c 36	N88-24958 *	US-PATENT-CLASS-357-27	c 35	N91-14588 *
US-PATENT-CLASS-356-209	c 14	N71-28993 *	US-PATENT-CLASS-356-37	c 45	N76-21742 *	US-PATENT-CLASS-357-29	c 76	N75-25730 *
US-PATENT-CLASS-356-209	c 14	N72-17323 *	US-PATENT-CLASS-356-386	c 36	N82-16396 *	US-PATENT-CLASS-357-29	c 35	N84-33765 *
US-PATENT-CLASS-356-209	c 35	N76-31490 *	US-PATENT-CLASS-356-389	c 33	N87-14594 *	US-PATENT-CLASS-357-29	c 76	N87-13313 *
US-PATENT-CLASS-356-210	c 74	N79-11865 *	US-PATENT-CLASS-356-394	c 33	N83-18996 *	US-PATENT-CLASS-357-29	c 35	N90-21358 *
US-PATENT-CLASS-356-212	c 35	N77-31465 *	US-PATENT-CLASS-356-399	c 74	N91-32922 *	US-PATENT-CLASS-357-29	c 33	N91-14551 *
US-PATENT-CLASS-356-213	c 39	N81-25400 *	US-PATENT-CLASS-356-4	c 74	N86-21348 *	US-PATENT-CLASS-357-29	c 33	N92-16196 *
US-PATENT-CLASS-356-216	c 74	N74-15095 *	US-PATENT-CLASS-356-4.5	c 74	N86-32266 *	US-PATENT-CLASS-357-30	c 44	N76-28635 *
US-PATENT-CLASS-356-216	c 35	N80-18359 *	US-PATENT-CLASS-356-402	c 74	N86-29650 *	US-PATENT-CLASS-357-30	c 44	N78-13526 *
US-PATENT-CLASS-356-216	c 39	N81-25400 *	US-PATENT-CLASS-356-404	c 35	N79-28527 *	US-PATENT-CLASS-357-30	c 44	N78-24609 *
US-PATENT-CLASS-356-216	c 35	N84-22931 *	US-PATENT-CLASS-356-406	c 52	N81-27783 *	US-PATENT-CLASS-357-30	c 44	N78-25527 *
US-PATENT-CLASS-356-222	c 03	N72-20033 *	US-PATENT-CLASS-356-407	c 43	N79-17288 *	US-PATENT-CLASS-357-30	c 44	N79-11467 *
US-PATENT-CLASS-356-222	c 47	N83-32232 *	US-PATENT-CLASS-356-407	c 52	N81-27783 *	US-PATENT-CLASS-357-30	c 44	N79-14528 *
US-PATENT-CLASS-356-234	c 39	N81-25400 *	US-PATENT-CLASS-356-409	c 36	N87-28006 *	US-PATENT-CLASS-357-30	c 44	N79-31752 *
US-PATENT-CLASS-356-234	c 35	N84-22931 *	US-PATENT-CLASS-356-416	c 43	N79-17288 *	US-PATENT-CLASS-357-30	c 44	N80-29835 *
US-PATENT-CLASS-356-236	c 74	N77-21941 *	US-PATENT-CLASS-356-416	c 52	N81-27783 *	US-PATENT-CLASS-357-30	c 44	N81-19558 *
US-PATENT-CLASS-356-236	c 74	N86-26190 *	US-PATENT-CLASS-356-419	c 74	N86-29650 *	US-PATENT-CLASS-357-30	c 44	N81-29525 *
US-PATENT-CLASS-356-237	c 74	N77-10899 *	US-PATENT-CLASS-356-432	c 74	N81-17887 *	US-PATENT-CLASS-357-30	c 44	N82-26777 *
US-PATENT-CLASS-356-237	c 38	N78-17395 *	US-PATENT-CLASS-356-432	c 25	N81-25159 *	US-PATENT-CLASS-357-30	c 44	N82-29709 *
US-PATENT-CLASS-356-237	c 38	N78-17396 *	US-PATENT-CLASS-356-434	c 35	N84-34705 *	US-PATENT-CLASS-357-30	c 44	N82-31764 *
US-PATENT-CLASS-356-237	c 35	N79-28527 *	US-PATENT-CLASS-356-437	c 25	N81-14015 *	US-PATENT-CLASS-357-30	c 44	N83-13579 *
US-PATENT-CLASS-356-239	c 74	N77-10899 *	US-PATENT-CLASS-356-43	c 74	N74-15095 *	US-PATENT-CLASS-357-30	c 44	N83-32177 *
US-PATENT-CLASS-356-241	c 14	N72-32452 *	US-PATENT-CLASS-356-43	c 75	N74-30156 *	US-PATENT-CLASS-357-30	c 35	N84-33765 *
US-PATENT-CLASS-356-243	c 36	N80-16321 *	US-PATENT-CLASS-356-43	c 36	N85-21639 *	US-PATENT-CLASS-357-30	c 33	N85-21492 *
US-PATENT-CLASS-356-244	c 14	N72-17323 *	US-PATENT-CLASS-356-43	c 36	N90-17132 *	US-PATENT-CLASS-357-30	c 44	N85-21768 *
US-PATENT-CLASS-356-244	c 35	N76-31490 *	US-PATENT-CLASS-356-446	c 74	N86-26190 *	US-PATENT-CLASS-357-30	c 44	N85-30475 *
US-PATENT-CLASS-356-244	c 35	N80-28687 *	US-PATENT-CLASS-356-45	c 36	N85-21639 *	US-PATENT-CLASS-357-30	c 33	N86-19516 *
US-PATENT-CLASS-356-244	c 74	N86-26190 *	US-PATENT-CLASS-356-4	c 14	N72-17326 *	US-PATENT-CLASS-357-30	c 76	N86-20150 *
US-PATENT-CLASS-356-246	c 35	N74-27860 *	US-PATENT-CLASS-356-4	c 07	N73-26119 *	US-PATENT-CLASS-357-30	c 44	N86-32875 *
US-PATENT-CLASS-356-246	c 74	N78-17867 *	US-PATENT-CLASS-356-4	c 36	N74-15145 *	US-PATENT-CLASS-357-30	c 76	N87-13313 *

REPORT NUMBER INDEX

US-PATENT-CLASS-364-558

US-PATENT-CLASS-357-30	c 33	N87-23879 *	US-PATENT-CLASS-358-109	c 32	N79-20297 *	US-PATENT-CLASS-363-22	c 33	N84-33663 *
US-PATENT-CLASS-357-30	c 33	N88-14271 *	US-PATENT-CLASS-358-109	c 33	N81-33403 *	US-PATENT-CLASS-363-23	c 33	N85-29147 *
US-PATENT-CLASS-357-30	c 33	N88-14271 *	US-PATENT-CLASS-358-109	c 43	N82-13465 *	US-PATENT-CLASS-363-24	c 33	N81-33404 *
US-PATENT-CLASS-357-30	c 76	N88-14836 *	US-PATENT-CLASS-358-109	c 36	N83-34304 *	US-PATENT-CLASS-363-25	c 33	N84-16453 *
US-PATENT-CLASS-357-30	c 35	N90-17118 *	US-PATENT-CLASS-358-109	c 32	N85-29117 *	US-PATENT-CLASS-363-27	c 44	N81-12542 *
US-PATENT-CLASS-357-30	c 35	N90-21358 *	US-PATENT-CLASS-358-109	c 35	N90-22769 *	US-PATENT-CLASS-363-36	c 33	N81-19393 *
US-PATENT-CLASS-357-30	c 33	N91-14551 *	US-PATENT-CLASS-358-111	c 52	N79-10724 *	US-PATENT-CLASS-363-40	c 33	N81-19393 *
US-PATENT-CLASS-357-30	c 35	N91-14588 *	US-PATENT-CLASS-358-113	c 35	N90-22770 *	US-PATENT-CLASS-363-47	c 33	N81-19393 *
US-PATENT-CLASS-357-30	c 33	N91-21434 *	US-PATENT-CLASS-358-125	c 74	N84-23247 *	US-PATENT-CLASS-363-49	c 33	N84-33663 *
US-PATENT-CLASS-357-30	c 74	N91-25841 *	US-PATENT-CLASS-358-125	c 74	N86-21348 *	US-PATENT-CLASS-363-53	c 33	N77-30365 *
US-PATENT-CLASS-357-30	c 44	N91-27614 *	US-PATENT-CLASS-358-133	c 32	N77-24328 *	US-PATENT-CLASS-363-54	c 33	N83-34190 *
US-PATENT-CLASS-357-32	c 35	N84-33765 *	US-PATENT-CLASS-358-133	c 32	N85-29117 *	US-PATENT-CLASS-363-56	c 33	N79-24254 *
US-PATENT-CLASS-357-32	c 33	N91-14551 *	US-PATENT-CLASS-358-133	c 17	N87-25348 *	US-PATENT-CLASS-363-56	c 33	N81-14220 *
US-PATENT-CLASS-357-34	c 74	N91-25841 *	US-PATENT-CLASS-358-133	c 32	N92-10128 *	US-PATENT-CLASS-363-56	c 33	N81-33404 *
US-PATENT-CLASS-357-35	c 33	N87-23879 *	US-PATENT-CLASS-358-135	c 32	N92-10128 *	US-PATENT-CLASS-363-57	c 33	N78-10377 *
US-PATENT-CLASS-357-40	c 36	N85-30305 *	US-PATENT-CLASS-358-138	c 32	N77-24328 *	US-PATENT-CLASS-363-60	c 33	N78-32341 *
US-PATENT-CLASS-357-41	c 33	N79-12321 *	US-PATENT-CLASS-358-138	c 17	N87-25348 *	US-PATENT-CLASS-363-60	c 44	N81-12542 *
US-PATENT-CLASS-357-42	c 76	N75-25730 *	US-PATENT-CLASS-358-142	c 74	N78-14889 *	US-PATENT-CLASS-363-61	c 33	N82-18494 *
US-PATENT-CLASS-357-45	c 33	N79-12321 *	US-PATENT-CLASS-358-160	c 60	N92-16563 *	US-PATENT-CLASS-363-61	c 33	N85-29147 *
US-PATENT-CLASS-357-45	c 44	N79-28475 *	US-PATENT-CLASS-358-161	c 32	N85-21427 *	US-PATENT-CLASS-363-65	c 33	N84-16453 *
US-PATENT-CLASS-357-46	c 36	N85-30305 *	US-PATENT-CLASS-358-168	c 32	N86-20647 *	US-PATENT-CLASS-363-67	c 33	N84-16453 *
US-PATENT-CLASS-357-46	c 74	N91-25841 *	US-PATENT-CLASS-358-174	c 32	N85-21427 *	US-PATENT-CLASS-363-70	c 33	N77-30365 *
US-PATENT-CLASS-357-47	c 33	N92-16197 *	US-PATENT-CLASS-358-183	c 60	N92-16563 *	US-PATENT-CLASS-363-71	c 33	N79-24254 *
US-PATENT-CLASS-357-54	c 33	N78-13320 *	US-PATENT-CLASS-358-213	c 33	N81-33403 *	US-PATENT-CLASS-363-71	c 33	N79-24257 *
US-PATENT-CLASS-357-4	c 76	N85-30922 *	US-PATENT-CLASS-358-213	c 33	N82-24416 *	US-PATENT-CLASS-363-71	c 33	N81-14220 *
US-PATENT-CLASS-357-4	c 35	N90-17118 *	US-PATENT-CLASS-358-213	c 74	N84-23247 *	US-PATENT-CLASS-363-71	c 33	N84-16453 *
US-PATENT-CLASS-357-4	c 35	N90-21358 *	US-PATENT-CLASS-358-217	c 32	N85-21427 *	US-PATENT-CLASS-363-71	c 33	N85-29147 *
US-PATENT-CLASS-357-4	c 76	N92-22041 *	US-PATENT-CLASS-358-219	c 32	N85-21427 *	US-PATENT-CLASS-363-78	c 33	N81-14220 *
US-PATENT-CLASS-357-50	c 76	N85-30922 *	US-PATENT-CLASS-358-222	c 74	N86-28732 *	US-PATENT-CLASS-363-87	c 33	N83-10345 *
US-PATENT-CLASS-357-52	c 76	N75-25730 *	US-PATENT-CLASS-358-225	c 74	N78-17865 *	US-PATENT-CLASS-363-89	c 33	N78-10377 *
US-PATENT-CLASS-357-52	c 44	N80-29835 *	US-PATENT-CLASS-358-22	c 60	N92-16563 *	US-PATENT-CLASS-363-95	c 33	N79-24257 *
US-PATENT-CLASS-357-52	c 76	N87-13313 *	US-PATENT-CLASS-358-36	c 32	N75-21485 *	US-PATENT-CLASS-363-97	c 33	N79-24254 *
US-PATENT-CLASS-357-54	c 76	N75-25730 *	US-PATENT-CLASS-358-41	c 74	N78-17865 *	US-PATENT-CLASS-363-97	c 09	N88-28939 *
US-PATENT-CLASS-357-55	c 33	N79-12321 *	US-PATENT-CLASS-358-44	c 74	N77-18893 *	US-PATENT-CLASS-364-106	c 07	N81-19115 *
US-PATENT-CLASS-357-55	c 33	N81-26360 *	US-PATENT-CLASS-358-55	c 74	N78-17865 *	US-PATENT-CLASS-364-120	c 52	N79-12694 *
US-PATENT-CLASS-357-55	c 33	N90-20282 *	US-PATENT-CLASS-358-81	c 32	N79-20297 *	US-PATENT-CLASS-364-131	c 60	N89-26400 *
US-PATENT-CLASS-357-55	c 33	N92-16197 *	US-PATENT-CLASS-358-88	c 74	N86-21348 *	US-PATENT-CLASS-364-200	c 62	N81-24779 *
US-PATENT-CLASS-357-56	c 33	N88-14271 *	US-PATENT-CLASS-358-88	c 32	N89-28676 *	US-PATENT-CLASS-364-200	c 60	N81-27814 *
US-PATENT-CLASS-357-58	c 33	N86-19516 *	US-PATENT-CLASS-358-88	c 74	N92-16809 *	US-PATENT-CLASS-364-200	c 60	N83-25378 *
US-PATENT-CLASS-357-58	c 35	N90-21358 *	US-PATENT-CLASS-358-91	c 32	N89-28676 *	US-PATENT-CLASS-364-200	c 60	N83-32342 *
US-PATENT-CLASS-357-58	c 33	N91-14551 *	US-PATENT-CLASS-358-92	c 74	N92-16809 *	US-PATENT-CLASS-364-200	c 32	N85-21428 *
US-PATENT-CLASS-357-59	c 44	N76-28635 *	US-PATENT-CLASS-358-92	c 32	N89-28676 *	US-PATENT-CLASS-364-200	c 60	N85-21992 *
US-PATENT-CLASS-357-59	c 44	N78-24609 *	US-PATENT-CLASS-358-92	c 74	N92-16809 *	US-PATENT-CLASS-364-200	c 60	N88-29310 *
US-PATENT-CLASS-357-59	c 44	N81-19558 *	US-PATENT-CLASS-358-93	c 35	N90-22770 *	US-PATENT-CLASS-364-200	c 62	N91-25693 *
US-PATENT-CLASS-357-59	c 33	N86-19516 *	US-PATENT-CLASS-358-96	c 52	N79-10724 *	US-PATENT-CLASS-364-228.3	c 62	N91-14769 *
US-PATENT-CLASS-357-5	c 33	N75-31332 *	US-PATENT-CLASS-359-11	c 74	N92-16808 *	US-PATENT-CLASS-364-229.4	c 60	N90-21527 *
US-PATENT-CLASS-357-5	c 33	N78-13320 *	US-PATENT-CLASS-359-240	c 74	N92-16808 *	US-PATENT-CLASS-364-231.9	c 62	N91-14769 *
US-PATENT-CLASS-357-5	c 76	N92-22040 *	US-PATENT-CLASS-359-241	c 74	N92-16808 *	US-PATENT-CLASS-364-267.9	c 60	N90-21527 *
US-PATENT-CLASS-357-5	c 76	N92-22041 *	US-PATENT-CLASS-359-362	c 74	N92-16810 *	US-PATENT-CLASS-364-280	c 62	N91-14769 *
US-PATENT-CLASS-357-60	c 33	N81-26360 *	US-PATENT-CLASS-359-498	c 36	N92-16290 *	US-PATENT-CLASS-364-281.3	c 62	N91-25693 *
US-PATENT-CLASS-357-61	c 33	N88-14271 *	US-PATENT-CLASS-359-557	c 74	N92-16811 *	US-PATENT-CLASS-364-281.6	c 62	N91-25693 *
US-PATENT-CLASS-357-61	c 35	N90-17118 *	US-PATENT-CLASS-359-72	c 74	N92-16810 *	US-PATENT-CLASS-364-281.8	c 62	N91-25693 *
US-PATENT-CLASS-357-63	c 33	N76-31409 *	US-PATENT-CLASS-359-744	c 74	N92-16810 *	US-PATENT-CLASS-364-281	c 62	N91-14769 *
US-PATENT-CLASS-357-63	c 44	N81-19558 *	US-PATENT-CLASS-359-813	c 74	N92-16811 *	US-PATENT-CLASS-364-281	c 62	N91-25693 *
US-PATENT-CLASS-357-63	c 44	N82-26777 *	US-PATENT-CLASS-359-819	c 74	N92-16811 *	US-PATENT-CLASS-364-300	c 52	N79-12694 *
US-PATENT-CLASS-357-65	c 44	N78-25527 *	US-PATENT-CLASS-36-119	c 54	N78-17675 *	US-PATENT-CLASS-364-300	c 62	N91-14769 *
US-PATENT-CLASS-357-65	c 44	N79-11467 *	US-PATENT-CLASS-36-92	c 54	N78-17675 *	US-PATENT-CLASS-364-400	c 33	N85-29142 *
US-PATENT-CLASS-357-65	c 44	N79-31752 *	US-PATENT-CLASS-360-101	c 35	N76-16391 *	US-PATENT-CLASS-364-402	c 62	N92-15620 *
US-PATENT-CLASS-357-65	c 33	N88-14271 *	US-PATENT-CLASS-360-10	c 35	N76-16391 *	US-PATENT-CLASS-364-413	c 39	N83-20280 *
US-PATENT-CLASS-357-67S	c 33	N91-21434 *	US-PATENT-CLASS-360-25	c 35	N77-17426 *	US-PATENT-CLASS-364-415	c 52	N79-12694 *
US-PATENT-CLASS-357-67	c 44	N78-25527 *	US-PATENT-CLASS-360-26	c 33	N76-18353 *	US-PATENT-CLASS-364-415	c 35	N84-12445 *
US-PATENT-CLASS-357-67	c 44	N79-11467 *	US-PATENT-CLASS-360-31	c 35	N77-17426 *	US-PATENT-CLASS-364-417	c 52	N79-10724 *
US-PATENT-CLASS-357-67	c 44	N79-31752 *	US-PATENT-CLASS-360-35	c 35	N76-16391 *	US-PATENT-CLASS-364-427	c 09	N90-20096 *
US-PATENT-CLASS-357-68	c 33	N90-20282 *	US-PATENT-CLASS-360-51	c 33	N76-18353 *	US-PATENT-CLASS-364-428	c 04	N91-31120 *
US-PATENT-CLASS-357-68	c 33	N92-16197 *	US-PATENT-CLASS-360-9	c 35	N76-16391 *	US-PATENT-CLASS-364-428	c 04	N91-31120 *
US-PATENT-CLASS-357-69	c 33	N92-16197 *	US-PATENT-CLASS-361-100	c 33	N83-34190 *	US-PATENT-CLASS-364-431	c 07	N81-19115 *
US-PATENT-CLASS-357-71S	c 33	N91-21434 *	US-PATENT-CLASS-361-141	c 33	N82-11357 *	US-PATENT-CLASS-364-433	c 06	N86-27280 *
US-PATENT-CLASS-357-72	c 33	N88-23941 *	US-PATENT-CLASS-361-170	c 33	N79-28415 *	US-PATENT-CLASS-364-433	c 09	N91-14356 *
US-PATENT-CLASS-357-73	c 33	N78-13320 *	US-PATENT-CLASS-361-218	c 03	N88-14083 *	US-PATENT-CLASS-364-434	c 08	N79-23097 *
US-PATENT-CLASS-357-74	c 37	N79-28549 *	US-PATENT-CLASS-361-222	c 03	N88-14083 *	US-PATENT-CLASS-364-434	c 08	N81-24106 *
US-PATENT-CLASS-357-74	c 33	N88-23941 *	US-PATENT-CLASS-361-226	c 28	N82-18401 *	US-PATENT-CLASS-364-435	c 06	N86-27280 *
US-PATENT-CLASS-357-76	c 33	N90-20282 *	US-PATENT-CLASS-361-230	c 28	N82-18401 *	US-PATENT-CLASS-364-452	c 04	N84-27713 *
US-PATENT-CLASS-357-79	c 37	N79-28549 *	US-PATENT-CLASS-361-283	c 33	N82-26572 *	US-PATENT-CLASS-364-453	c 18	N81-29152 *
US-PATENT-CLASS-357-7	c 33	N75-31331 *	US-PATENT-CLASS-361-334	c 35	N81-26431 *	US-PATENT-CLASS-364-453	c 33	N85-29142 *
US-PATENT-CLASS-357-81	c 37	N79-28549 *	US-PATENT-CLASS-361-383	c 31	N90-21215 *	US-PATENT-CLASS-364-458	c 32	N79-14267 *
US-PATENT-CLASS-357-81	c 33	N88-23941 *	US-PATENT-CLASS-361-384	c 31	N90-21215 *	US-PATENT-CLASS-364-478	c 37	N91-21544 *
US-PATENT-CLASS-357-81	c 33	N90-20282 *	US-PATENT-CLASS-361-385	c 31	N90-21215 *	US-PATENT-CLASS-364-481	c 33	N90-19492 *
US-PATENT-CLASS-357-82	c 37	N79-28549 *	US-PATENT-CLASS-361-395	c 32	N78-24391 *	US-PATENT-CLASS-364-482	c 33	N90-19492 *
US-PATENT-CLASS-357-82	c 76	N91-28014 *	US-PATENT-CLASS-361-56	c 33	N81-27397 *	US-PATENT-CLASS-364-484	c 33	N89-14385 *
US-PATENT-CLASS-357-83	c 37	N79-28549 *	US-PATENT-CLASS-361-65	c 33	N90-20320 *	US-PATENT-CLASS-364-487	c 17	N91-14371 *
US-PATENT-CLASS-357-90	c 35	N90-21358 *	US-PATENT-CLASS-361-79	c 33	N90-20320 *	US-PATENT-CLASS-364-500	c 25	N88-29002 *
US-PATENT-CLASS-357-91	c 76	N75-25730 *	US-PATENT-CLASS-361-91	c 33	N81-27397 *	US-PATENT-CLASS-364-510	c 34	N81-26402 *
US-PATENT-CLASS-357-91	c 33	N78-27326 *	US-PATENT-CLASS-362-11	c 74	N81-17886 *	US-PATENT-CLASS-364-513	c 61	N91-14741 *
US-PATENT-CLASS-357-91	c 44	N80-29835 *	US-PATENT-CLASS-362-241	c 74	N81-17886 *	US-PATENT-CLASS-364-513	c 37	N81-21542 *
US-PATENT-CLASS-357-91	c 33	N81-26360 *	US-PATENT-CLASS-362-269	c 17	N78-17140 *	US-PATENT-CLASS-364-513	c 37	N91-21544 *
US-PATENT-CLASS-357-91	c 44	N86-32875 *	US-PATENT-CLASS-363-100	c 33	N85-29147 *	US-PATENT-CLASS-364-513	c 33	N91-31528 *
US-PATENT-CLASS-358-101	c 37	N86-21850 *	US-PATENT-CLASS-363-101	c 33	N78-32341 *	US-PATENT-CLASS-364-513	c 63	N91-31885 *
US-PATENT-CLASS-358-104	c 09	N78-18083 *	US-PATENT-CLASS-363-101	c 33	N81-19392 *	US-PATENT-CLASS-364-513	c 62	N91-32852 *
US-PATENT-CLASS-358-104	c 74	N79-13855 *	US-PATENT-CLASS-363-132	c 33	N82-18494 *	US-PATENT-CLASS-364-514	c 33	N81-33405 *
US-PATENT-CLASS-358-104	c 36	N83-34304 *	US-PATENT-CLASS-363-134	c 33	N79-24257 *	US-PATENT-CLASS-364-522	c 39	N83-20280 *
US-PATENT-CLASS-358-105	c 39	N83-20280 *	US-PATENT-CLASS-363-147	c 44	N81-12542 *	US-PATENT-CLASS-364-550	c 17	N91-14371 *
US-PATENT-CLASS-358-105	c 74	N86-21348 *	US-PATENT-CLASS-363-16	c 33	N78-32341 *	US-PATENT-CLASS-364-556	c 36	N85-29264 *
US-PATENT-CLASS-358-105	c 17	N87-25348 *	US-PATENT-CLASS-363-17	c 33	N82-18494 *	US-PATENT-CLASS-364-557	c 35	N84-14491 *
US-PATENT-CLASS-358-106	c 39	N78-16387 *	US-PATENT-CLASS-363-19	c 33	N85-29147 *	US-PATENT-CLASS-364-557	c 25	N88-29002 *
US-PATENT-CLASS-358-107	c 35	N79-16296 *	US-PATENT-CLASS-363-21	c 33	N81-19392 *	US-PATENT-CLASS-364-558	c 35	N84-14491 *
US-PATENT-CLASS-358-107	c 36	N88-24958 *	US-PATENT-CLASS-363-21	c 33	N81-19393 *	US-PATENT-CLASS-364-558	c 07	N84-22559 *

US-PATENT-CLASS-364-559	c 39	N83-20280 *	US-PATENT-CLASS-371-38.1	c 17	N90-21061 *	US-PATENT-CLASS-375-102	c 32	N87-25511 *
US-PATENT-CLASS-364-560	c 43	N79-26439 *	US-PATENT-CLASS-371-40.1	c 60	N91-31810 *	US-PATENT-CLASS-375-104	c 35	N81-19427 *
US-PATENT-CLASS-364-561	c 36	N88-24958 *	US-PATENT-CLASS-371-40	c 60	N87-21591 *	US-PATENT-CLASS-375-106	c 60	N82-16747 *
US-PATENT-CLASS-364-566	c 18	N81-29152 *	US-PATENT-CLASS-371-43	c 33	N87-25531 *	US-PATENT-CLASS-375-107	c 32	N82-31583 *
US-PATENT-CLASS-364-571	c 34	N81-26402 *	US-PATENT-CLASS-371-43	c 32	N91-14523 *	US-PATENT-CLASS-375-107	c 32	N81-14186 *
US-PATENT-CLASS-364-571	c 35	N84-14491 *	US-PATENT-CLASS-371-63	c 17	N87-16863 *	US-PATENT-CLASS-375-110	c 32	N87-21207 *
US-PATENT-CLASS-364-571	c 33	N85-34333 *	US-PATENT-CLASS-371-68	c 60	N82-29013 *	US-PATENT-CLASS-375-114	c 60	N82-16747 *
US-PATENT-CLASS-364-571	c 25	N88-29002 *	US-PATENT-CLASS-371-6	c 32	N83-13323 *	US-PATENT-CLASS-375-115	c 32	N81-15179 *
US-PATENT-CLASS-364-578	c 33	N85-34333 *	US-PATENT-CLASS-371-8	c 62	N90-19776 *	US-PATENT-CLASS-375-116	c 60	N82-16747 *
US-PATENT-CLASS-364-578	c 35	N90-23713 *	US-PATENT-CLASS-372-100	c 36	N84-14509 *	US-PATENT-CLASS-375-120	c 32	N84-27952 *
US-PATENT-CLASS-364-578	c 61	N91-14741 *	US-PATENT-CLASS-372-103	c 36	N84-28065 *	US-PATENT-CLASS-375-120	c 32	N87-21207 *
US-PATENT-CLASS-364-578	c 32	N91-25317 *	US-PATENT-CLASS-372-103	c 36	N87-23960 *	US-PATENT-CLASS-375-120	c 33	N87-25531 *
US-PATENT-CLASS-364-604	c 32	N79-14267 *	US-PATENT-CLASS-372-105	c 36	N92-16290 *	US-PATENT-CLASS-375-1	c 32	N81-15179 *
US-PATENT-CLASS-364-713	c 32	N79-20297 *	US-PATENT-CLASS-372-108	c 36	N84-14509 *	US-PATENT-CLASS-375-1	c 35	N81-19427 *
US-PATENT-CLASS-364-713	c 74	N91-26918 *	US-PATENT-CLASS-372-18	c 36	N87-23960 *	US-PATENT-CLASS-375-1	c 33	N81-33405 *
US-PATENT-CLASS-364-717	c 32	N82-31583 *	US-PATENT-CLASS-372-19	c 36	N91-17360 *	US-PATENT-CLASS-375-23	c 32	N87-21207 *
US-PATENT-CLASS-364-717	c 33	N90-23636 *	US-PATENT-CLASS-372-20	c 36	N84-22943 *	US-PATENT-CLASS-375-34	c 35	N81-19427 *
US-PATENT-CLASS-364-723	c 60	N85-33701 *	US-PATENT-CLASS-372-20	c 36	N87-25567 *	US-PATENT-CLASS-375-39	c 32	N87-25511 *
US-PATENT-CLASS-364-724.01	c 33	N89-28713 *	US-PATENT-CLASS-372-25	c 33	N83-34189 *	US-PATENT-CLASS-375-53	c 32	N91-14523 *
US-PATENT-CLASS-364-724.05	c 33	N89-28713 *	US-PATENT-CLASS-372-28	c 36	N84-22943 *	US-PATENT-CLASS-375-53	c 32	N91-25318 *
US-PATENT-CLASS-364-728	c 32	N79-14267 *	US-PATENT-CLASS-372-32	c 36	N84-22943 *	US-PATENT-CLASS-375-53	c 32	N91-25318 *
US-PATENT-CLASS-364-728	c 60	N86-21154 *	US-PATENT-CLASS-372-32	c 33	N85-34333 *	US-PATENT-CLASS-375-53	c 32	N91-27439 *
US-PATENT-CLASS-364-728	c 60	N88-24169 *	US-PATENT-CLASS-372-38	c 36	N85-30305 *	US-PATENT-CLASS-375-54	c 33	N81-15192 *
US-PATENT-CLASS-364-735	c 33	N89-28713 *	US-PATENT-CLASS-372-39	c 36	N91-17360 *	US-PATENT-CLASS-375-54	c 32	N87-25511 *
US-PATENT-CLASS-364-746.1	c 33	N90-23636 *	US-PATENT-CLASS-372-41	c 36	N91-15528 *	US-PATENT-CLASS-375-54	c 33	N87-25531 *
US-PATENT-CLASS-364-754	c 33	N89-28713 *	US-PATENT-CLASS-372-43	c 36	N87-23960 *	US-PATENT-CLASS-375-56	c 32	N91-25316 *
US-PATENT-CLASS-364-757	c 60	N88-24169 *	US-PATENT-CLASS-372-46	c 36	N85-30305 *	US-PATENT-CLASS-375-56	c 32	N91-27439 *
US-PATENT-CLASS-364-807	c 62	N91-32852 *	US-PATENT-CLASS-372-4	c 36	N84-28065 *	US-PATENT-CLASS-375-57	c 32	N91-14523 *
US-PATENT-CLASS-364-807	c 32	N92-22033 *	US-PATENT-CLASS-372-4	c 36	N87-25567 *	US-PATENT-CLASS-375-58	c 32	N81-15179 *
US-PATENT-CLASS-364-822	c 32	N83-18975 *	US-PATENT-CLASS-372-50	c 36	N85-30305 *	US-PATENT-CLASS-375-59	c 33	N87-25531 *
US-PATENT-CLASS-364-822	c 74	N86-21348 *	US-PATENT-CLASS-372-55	c 36	N84-16542 *	US-PATENT-CLASS-375-67	c 33	N81-15192 *
US-PATENT-CLASS-364-822	c 74	N91-26918 *	US-PATENT-CLASS-372-56	c 36	N82-28616 *	US-PATENT-CLASS-375-76	c 33	N87-25531 *
US-PATENT-CLASS-364-825	c 33	N82-24417 *	US-PATENT-CLASS-372-56	c 36	N83-10417 *	US-PATENT-CLASS-375-77	c 32	N84-27952 *
US-PATENT-CLASS-364-837	c 74	N91-26918 *	US-PATENT-CLASS-372-58	c 36	N82-28616 *	US-PATENT-CLASS-375-80	c 04	N91-14321 *
US-PATENT-CLASS-364-841	c 74	N91-26918 *	US-PATENT-CLASS-372-59	c 36	N83-10417 *	US-PATENT-CLASS-375-80	c 32	N92-21712 *
US-PATENT-CLASS-364-853	c 60	N85-33701 *	US-PATENT-CLASS-372-59	c 25	N90-20154 *	US-PATENT-CLASS-375-81	c 32	N84-27952 *
US-PATENT-CLASS-364-861	c 32	N83-18975 *	US-PATENT-CLASS-372-59	c 25	N91-21270 *	US-PATENT-CLASS-375-85	c 32	N91-25316 *
US-PATENT-CLASS-364-900	c 52	N79-12694 *	US-PATENT-CLASS-372-60	c 36	N83-10417 *	US-PATENT-CLASS-375-85	c 32	N91-27439 *
US-PATENT-CLASS-364-900	c 60	N79-20751 *	US-PATENT-CLASS-372-61	c 74	N87-14971 *	US-PATENT-CLASS-375-86	c 32	N91-25318 *
US-PATENT-CLASS-364-900	c 60	N81-27814 *	US-PATENT-CLASS-372-66	c 36	N91-17360 *	US-PATENT-CLASS-375-86	c 32	N91-27439 *
US-PATENT-CLASS-364-900	c 60	N83-32342 *	US-PATENT-CLASS-372-68	c 36	N87-23961 *	US-PATENT-CLASS-375-88	c 17	N87-16863 *
US-PATENT-CLASS-364-900	c 60	N84-28491 *	US-PATENT-CLASS-372-69	c 36	N87-25567 *	US-PATENT-CLASS-375-94	c 04	N91-14321 *
US-PATENT-CLASS-364-900	c 60	N84-28492 *	US-PATENT-CLASS-372-70	c 36	N91-17360 *	US-PATENT-CLASS-375-94	c 32	N92-21712 *
US-PATENT-CLASS-364-900	c 33	N89-14384 *	US-PATENT-CLASS-372-71	c 36	N84-28065 *	US-PATENT-CLASS-375-97	c 32	N91-25316 *
US-PATENT-CLASS-364-900	c 35	N90-23713 *	US-PATENT-CLASS-372-71	c 36	N91-15528 *	US-PATENT-CLASS-375-99	c 35	N81-19427 *
US-PATENT-CLASS-364-924.4	c 35	N90-23713 *	US-PATENT-CLASS-372-74	c 35	N84-12444 *	US-PATENT-CLASS-376-127	c 72	N87-21661 *
US-PATENT-CLASS-364-925.1	c 35	N90-23713 *	US-PATENT-CLASS-372-75	c 36	N91-15528 *	US-PATENT-CLASS-376-159	c 25	N85-21279 *
US-PATENT-CLASS-364-933.8	c 35	N90-23713 *	US-PATENT-CLASS-372-79	c 36	N84-16542 *	US-PATENT-CLASS-377-111	c 60	N90-21525 *
US-PATENT-CLASS-364-934	c 35	N90-23713 *	US-PATENT-CLASS-372-79	c 36	N86-29204 *	US-PATENT-CLASS-377-114	c 60	N90-21525 *
US-PATENT-CLASS-364-940.67	c 60	N90-21527 *	US-PATENT-CLASS-372-81	c 36	N87-23961 *	US-PATENT-CLASS-377-116	c 60	N90-21525 *
US-PATENT-CLASS-364-942.51	c 60	N90-21527 *	US-PATENT-CLASS-372-82	c 36	N82-28616 *	US-PATENT-CLASS-377-123	c 60	N90-21525 *
US-PATENT-CLASS-364-944	c 60	N90-21527 *	US-PATENT-CLASS-372-93	c 36	N84-14509 *	US-PATENT-CLASS-377-126	c 60	N90-21525 *
US-PATENT-CLASS-364-975.5	c 60	N90-21527 *	US-PATENT-CLASS-372-93	c 36	N84-28065 *	US-PATENT-CLASS-377-39	c 33	N89-14385 *
US-PATENT-CLASS-365-120	c 33	N81-29342 *	US-PATENT-CLASS-372-94	c 36	N84-14509 *	US-PATENT-CLASS-377-69	c 60	N90-21525 *
US-PATENT-CLASS-365-156	c 60	N91-31810 *	US-PATENT-CLASS-372-95	c 36	N84-28065 *	US-PATENT-CLASS-377-79	c 60	N90-21525 *
US-PATENT-CLASS-365-200	c 60	N91-31810 *	US-PATENT-CLASS-372-98	c 36	N84-14509 *	US-PATENT-CLASS-378-104	c 33	N85-29147 *
US-PATENT-CLASS-365-768	c 32	N86-27513 *	US-PATENT-CLASS-372-99	c 36	N87-25567 *	US-PATENT-CLASS-378-112	c 33	N85-29147 *
US-PATENT-CLASS-366-106	c 71	N84-28568 *	US-PATENT-CLASS-373-10	c 35	N87-23944 *	US-PATENT-CLASS-378-2	c 34	N83-19015 *
US-PATENT-CLASS-366-114	c 71	N83-35781 *	US-PATENT-CLASS-373-15	c 35	N87-23944 *	US-PATENT-CLASS-378-2	c 74	N84-11920 *
US-PATENT-CLASS-367-100	c 32	N82-18443 *	US-PATENT-CLASS-374-115	c 35	N86-19580 *	US-PATENT-CLASS-378-43	c 34	N83-19015 *
US-PATENT-CLASS-367-102	c 32	N82-18443 *	US-PATENT-CLASS-374-117	c 52	N85-30618 *	US-PATENT-CLASS-378-43	c 74	N86-20124 *
US-PATENT-CLASS-367-156	c 33	N92-15331 *	US-PATENT-CLASS-374-120	c 35	N86-19580 *	US-PATENT-CLASS-378-51	c 38	N90-23756 *
US-PATENT-CLASS-367-181	c 33	N82-26572 *	US-PATENT-CLASS-374-122	c 06	N83-10040 *	US-PATENT-CLASS-378-58	c 74	N86-20126 *
US-PATENT-CLASS-367-189	c 35	N84-22933 *	US-PATENT-CLASS-374-122	c 43	N85-21723 *	US-PATENT-CLASS-378-58	c 38	N90-23756 *
US-PATENT-CLASS-367-191	c 71	N88-24241 *	US-PATENT-CLASS-374-122	c 32	N87-21206 *	US-PATENT-CLASS-378-59	c 74	N86-20126 *
US-PATENT-CLASS-367-26	c 39	N80-10507 *	US-PATENT-CLASS-374-123	c 06	N83-10040 *	US-PATENT-CLASS-378-85	c 74	N86-20124 *
US-PATENT-CLASS-367-27	c 31	N80-32584 *	US-PATENT-CLASS-374-124	c 36	N90-17132 *	US-PATENT-CLASS-380-25	c 60	N90-25583 *
US-PATENT-CLASS-367-36	c 31	N80-32584 *	US-PATENT-CLASS-374-124	c 35	N92-21710 *	US-PATENT-CLASS-380-45	c 60	N90-25583 *
US-PATENT-CLASS-367-57	c 31	N80-32584 *	US-PATENT-CLASS-374-126	c 36	N90-17132 *	US-PATENT-CLASS-380-49	c 60	N90-25583 *
US-PATENT-CLASS-367-88	c 32	N82-18443 *	US-PATENT-CLASS-374-130	c 36	N90-17132 *	US-PATENT-CLASS-381-183	c 54	N89-29953 *
US-PATENT-CLASS-367-88	c 32	N83-31918 *	US-PATENT-CLASS-374-135	c 35	N92-21710 *	US-PATENT-CLASS-381-187	c 54	N89-29953 *
US-PATENT-CLASS-367-88	c 43	N86-19711 *	US-PATENT-CLASS-374-137	c 36	N85-21639 *	US-PATENT-CLASS-381-26	c 35	N91-27522 *
US-PATENT-CLASS-367-908	c 35	N89-14407 *	US-PATENT-CLASS-374-160	c 52	N85-30618 *	US-PATENT-CLASS-381-68.1	c 35	N91-27522 *
US-PATENT-CLASS-367-95	c 32	N82-23376 *	US-PATENT-CLASS-374-162R	c 74	N82-30071 *	US-PATENT-CLASS-381-71	c 71	N91-27913 *
US-PATENT-CLASS-368-184	c 33	N83-36357 *	US-PATENT-CLASS-374-162	c 35	N90-22770 *	US-PATENT-CLASS-381-92	c 35	N91-27522 *
US-PATENT-CLASS-368-200	c 33	N83-36357 *	US-PATENT-CLASS-374-163	c 35	N86-19580 *	US-PATENT-CLASS-381-94	c 71	N91-27913 *
US-PATENT-CLASS-368-201	c 33	N83-36357 *	US-PATENT-CLASS-374-17	c 35	N83-29650 *	US-PATENT-CLASS-382-31	c 74	N89-14078 *
US-PATENT-CLASS-368-47	c 33	N81-14221 *	US-PATENT-CLASS-374-180	c 35	N91-31608 *	US-PATENT-CLASS-382-31	c 74	N91-25840 *
US-PATENT-CLASS-37N	c 27	N81-15104 *	US-PATENT-CLASS-374-183	c 33	N86-32624 *	US-PATENT-CLASS-382-32	c 74	N91-25840 *
US-PATENT-CLASS-370-100	c 60	N82-16747 *	US-PATENT-CLASS-374-1	c 35	N84-28019 *	US-PATENT-CLASS-382-41	c 60	N89-26400 *
US-PATENT-CLASS-370-16	c 62	N90-19776 *	US-PATENT-CLASS-374-208	c 37	N85-21651 *	US-PATENT-CLASS-382-42	c 74	N86-21348 *
US-PATENT-CLASS-370-58	c 60	N81-27814 *	US-PATENT-CLASS-374-208	c 35	N91-31608 *	US-PATENT-CLASS-382-42	c 60	N88-24169 *
US-PATENT-CLASS-370-67	c 33	N82-29538 *	US-PATENT-CLASS-374-210	c 37	N85-21651 *	US-PATENT-CLASS-382-42	c 60	N89-26400 *
US-PATENT-CLASS-370-85.4	c 62	N91-14772 *	US-PATENT-CLASS-374-29	c 35	N91-31608 *	US-PATENT-CLASS-382-43	c 74	N91-25840 *
US-PATENT-CLASS-370-85.6	c 62	N91-14772 *	US-PATENT-CLASS-374-36	c 25	N92-22038 *	US-PATENT-CLASS-382-49	c 60	N89-26400 *
US-PATENT-CLASS-370-85.9	c 62	N91-14772 *	US-PATENT-CLASS-374-46	c 34	N88-29002 *	US-PATENT-CLASS-382-49	c 74	N91-25840 *
US-PATENT-CLASS-370-85	c 33	N81-14221 *	US-PATENT-CLASS-374-46	c 25	N83-34221 *	US-PATENT-CLASS-382-6	c 74	N91-25840 *
US-PATENT-CLASS-370-94.3	c 62	N91-14772 *	US-PATENT-CLASS-374-49	c 15	N86-19413 *	US-PATENT-CLASS-384-101	c 37	N85-33490 *
US-PATENT-CLASS-371-041	c 17	N90-21061 *	US-PATENT-CLASS-374-49	c 14	N91-27175 *	US-PATENT-CLASS-384-106	c 37	N86-19606 *
US-PATENT-CLASS-371-043	c 17	N90-21061 *	US-PATENT-CLASS-374-51	c 39	N91-27175 *	US-PATENT-CLASS-384-124	c 27	N83-34043 *
US-PATENT-CLASS-371-11.3	c 60	N90-21527 *	US-PATENT-CLASS-374-8	c 25	N83-32081 *	US-PATENT-CLASS-384-99	c 37	N85-33490 *
US-PATENT-CLASS-371-20	c 33	N81-26359 *	US-PATENT-CLASS-374-8	c 09	N91-21157 *	US-PATENT-CLASS-388-821	c 33	N90-21951 *
US-PATENT-CLASS-371-25	c 33	N81-26359 *	US-PATENT-CLASS-374-8	c 25	N91-32196 *	US-PATENT-CLASS-39-25.35	c 33	N86-20671 *
US-PATENT-CLASS-371-37.4	c 17	N90-21061 *	US-PATENT-CLASS-374-9	c 32	N87-21206 *	US-PATENT-CLASS-395-24	c 32	N92-22033 *
US-PATENT-CLASS-371-37	c 60	N87-21591 *	US-PATENT-CLASS-375-101	c 32	N87-25511 *	US-PATENT-CLASS-395-86	c 37	N92-22036 *

REPORT NUMBER INDEX

US-PATENT-CLASS-417-138

US-PATENT-CLASS-395-95	c 37	N92-22036 *	US-PATENT-CLASS-408-1-R	c 31	N87-25491 *	US-PATENT-CLASS-415-174	c 37	N84-22957 *
US-PATENT-CLASS-4-DIG.9	c 54	N91-14724 *	US-PATENT-CLASS-408-1R	c 37	N81-14319 *	US-PATENT-CLASS-415-174	c 37	N86-20788 *
US-PATENT-CLASS-4-110	c 54	N74-20725 *	US-PATENT-CLASS-408-1R	c 31	N83-27058 *	US-PATENT-CLASS-415-175	c 07	N83-31603 *
US-PATENT-CLASS-4-110	c 05	N72-22093 *	US-PATENT-CLASS-408-111	c 37	N74-25968 *	US-PATENT-CLASS-415-178	c 07	N82-32366 *
US-PATENT-CLASS-4-120	c 54	N74-20725 *	US-PATENT-CLASS-408-112	c 37	N75-25186 *	US-PATENT-CLASS-415-180	c 07	N83-31603 *
US-PATENT-CLASS-4-144.3	c 52	N81-24711 *	US-PATENT-CLASS-408-137	c 15	N71-33518 *	US-PATENT-CLASS-415-180	c 07	N77-23106 *
US-PATENT-CLASS-4-144.3	c 52	N81-28740 *	US-PATENT-CLASS-408-14	c 35	N92-21723 *	US-PATENT-CLASS-415-181	c 07	N78-10467 *
US-PATENT-CLASS-4-209R	c 54	N91-14723 *	US-PATENT-CLASS-408-16	c 35	N92-21723 *	US-PATENT-CLASS-415-181	c 07	N74-28226 *
US-PATENT-CLASS-4-316	c 54	N91-14723 *	US-PATENT-CLASS-408-186	c 37	N75-25186 *	US-PATENT-CLASS-415-181	c 07	N74-31270 *
US-PATENT-CLASS-4-316	c 54	N91-14724 *	US-PATENT-CLASS-408-193	c 37	N75-25186 *	US-PATENT-CLASS-415-196	c 37	N80-26658 *
US-PATENT-CLASS-4-482	c 54	N91-14723 *	US-PATENT-CLASS-408-195	c 37	N75-25186 *	US-PATENT-CLASS-415-196	c 37	N82-19540 *
US-PATENT-CLASS-4-482	c 54	N91-14724 *	US-PATENT-CLASS-408-241S	c 35	N92-21723 *	US-PATENT-CLASS-415-197	c 18	N83-20996 *
US-PATENT-CLASS-4-498	c 44	N84-34792 *	US-PATENT-CLASS-408-61	c 31	N83-27058 *	US-PATENT-CLASS-415-199	c 05	N80-14107 *
US-PATENT-CLASS-4-661	c 54	N91-14724 *	US-PATENT-CLASS-408-80	c 37	N74-25968 *	US-PATENT-CLASS-415-1	c 34	N79-20335 *
US-PATENT-CLASS-4-99	c 05	N72-22093 *	US-PATENT-CLASS-409-131	c 31	N83-27058 *	US-PATENT-CLASS-415-1	c 07	N83-31603 *
US-PATENT-CLASS-40-28	c 12	N71-18603 *	US-PATENT-CLASS-41R	c 27	N81-15104 *	US-PATENT-CLASS-415-1	c 37	N85-29282 *
US-PATENT-CLASS-40-703	c 35	N92-22038 *	US-PATENT-CLASS-410-156	c 37	N85-34401 *	US-PATENT-CLASS-415-2R	c 44	N82-24639 *
US-PATENT-CLASS-403-DIG.1	c 31	N92-16161 *	US-PATENT-CLASS-410-79	c 18	N85-29991 *	US-PATENT-CLASS-415-2R	c 44	N84-23018 *
US-PATENT-CLASS-403-102	c 37	N85-30336 *	US-PATENT-CLASS-410-80	c 37	N91-27561 *	US-PATENT-CLASS-415-200	c 07	N79-14096 *
US-PATENT-CLASS-403-102	c 18	N87-14373 *	US-PATENT-CLASS-410-84	c 37	N91-27561 *	US-PATENT-CLASS-415-200	c 37	N79-18318 *
US-PATENT-CLASS-403-105	c 37	N79-14382 *	US-PATENT-CLASS-410-90	c 18	N85-29991 *	US-PATENT-CLASS-415-201	c 07	N79-14096 *
US-PATENT-CLASS-403-113	c 37	N86-19605 *	US-PATENT-CLASS-411-103	c 37	N85-30335 *	US-PATENT-CLASS-415-229	c 37	N91-14608 *
US-PATENT-CLASS-403-113	c 37	N91-17387 *	US-PATENT-CLASS-411-108	c 37	N85-30335 *	US-PATENT-CLASS-415-2	c 44	N80-21828 *
US-PATENT-CLASS-403-119	c 18	N87-14373 *	US-PATENT-CLASS-411-166	c 37	N87-22976 *	US-PATENT-CLASS-415-47	c 07	N83-31603 *
US-PATENT-CLASS-403-120	c 37	N86-19605 *	US-PATENT-CLASS-411-348	c 31	N92-16161 *	US-PATENT-CLASS-415-68	c 37	N85-29282 *
US-PATENT-CLASS-403-131	c 37	N91-21543 *	US-PATENT-CLASS-411-353	c 37	N83-19091 *	US-PATENT-CLASS-415-9	c 44	N79-14527 *
US-PATENT-CLASS-403-143	c 18	N85-29991 *	US-PATENT-CLASS-411-354	c 37	N92-21726 *	US-PATENT-CLASS-416-104	c 05	N77-17029 *
US-PATENT-CLASS-403-146	c 18	N87-14373 *	US-PATENT-CLASS-411-368	c 37	N85-29285 *	US-PATENT-CLASS-416-114	c 05	N81-19087 *
US-PATENT-CLASS-403-146	c 37	N91-15544 *	US-PATENT-CLASS-411-368	c 37	N87-22976 *	US-PATENT-CLASS-416-114	c 08	N87-23631 *
US-PATENT-CLASS-403-147	c 37	N91-15544 *	US-PATENT-CLASS-411-378	c 37	N85-29285 *	US-PATENT-CLASS-416-115	c 02	N72-11018 *
US-PATENT-CLASS-403-156	c 37	N91-15544 *	US-PATENT-CLASS-411-385	c 37	N92-21726 *	US-PATENT-CLASS-416-117	c 37	N84-12493 *
US-PATENT-CLASS-403-15	c 37	N85-30334 *	US-PATENT-CLASS-411-424	c 37	N87-22976 *	US-PATENT-CLASS-416-121	c 02	N72-11018 *
US-PATENT-CLASS-403-163	c 18	N87-14373 *	US-PATENT-CLASS-411-426	c 37	N85-29285 *	US-PATENT-CLASS-416-127	c 02	N72-11018 *
US-PATENT-CLASS-403-164	c 54	N86-29507 *	US-PATENT-CLASS-411-427	c 37	N87-22976 *	US-PATENT-CLASS-416-130	c 02	N72-11018 *
US-PATENT-CLASS-403-16	c 37	N85-30334 *	US-PATENT-CLASS-411-501	c 37	N85-29285 *	US-PATENT-CLASS-416-132B	c 37	N84-12493 *
US-PATENT-CLASS-403-171	c 31	N81-25258 *	US-PATENT-CLASS-411-517	c 37	N83-19091 *	US-PATENT-CLASS-416-132R	c 05	N79-17847 *
US-PATENT-CLASS-403-171	c 31	N86-19479 *	US-PATENT-CLASS-411-531	c 37	N85-29285 *	US-PATENT-CLASS-416-135	c 07	N77-32148 *
US-PATENT-CLASS-403-171	c 37	N88-29180 *	US-PATENT-CLASS-411-531	c 37	N87-22976 *	US-PATENT-CLASS-416-135	c 37	N78-10468 *
US-PATENT-CLASS-403-171	c 37	N91-14614 *	US-PATENT-CLASS-411-65	c 37	N92-21726 *	US-PATENT-CLASS-416-138	c 05	N77-17029 *
US-PATENT-CLASS-403-171	c 18	N91-21221 *	US-PATENT-CLASS-411-901	c 37	N92-21726 *	US-PATENT-CLASS-416-138	c 05	N79-17847 *
US-PATENT-CLASS-403-176	c 18	N91-21221 *	US-PATENT-CLASS-411-908	c 37	N92-21726 *	US-PATENT-CLASS-416-141	c 05	N77-17029 *
US-PATENT-CLASS-403-179	c 27	N76-14264 *	US-PATENT-CLASS-414-1	c 37	N80-14398 *	US-PATENT-CLASS-416-141	c 37	N78-10468 *
US-PATENT-CLASS-403-217	c 37	N82-32732 *	US-PATENT-CLASS-414-1	c 37	N81-14320 *	US-PATENT-CLASS-416-144	c 35	N78-24515 *
US-PATENT-CLASS-403-217	c 37	N88-29180 *	US-PATENT-CLASS-414-1	c 54	N86-28618 *	US-PATENT-CLASS-416-145	c 05	N85-29947 *
US-PATENT-CLASS-403-252	c 18	N91-21221 *	US-PATENT-CLASS-414-217	c 37	N85-29286 *	US-PATENT-CLASS-416-149	c 02	N72-11018 *
US-PATENT-CLASS-403-273	c 37	N77-23482 *	US-PATENT-CLASS-414-217	c 31	N91-15423 *	US-PATENT-CLASS-416-153	c 07	N77-14025 *
US-PATENT-CLASS-403-282	c 26	N83-10170 *	US-PATENT-CLASS-414-220	c 31	N91-15423 *	US-PATENT-CLASS-416-157B	c 07	N79-14095 *
US-PATENT-CLASS-403-28	c 27	N76-14264 *	US-PATENT-CLASS-414-222	c 37	N82-32731 *	US-PATENT-CLASS-416-158	c 08	N87-23631 *
US-PATENT-CLASS-403-28	c 37	N85-29285 *	US-PATENT-CLASS-414-226	c 37	N82-32731 *	US-PATENT-CLASS-416-160	c 07	N77-14025 *
US-PATENT-CLASS-403-291	c 37	N91-17387 *	US-PATENT-CLASS-414-288	c 85	N85-34722 *	US-PATENT-CLASS-416-160	c 07	N79-14095 *
US-PATENT-CLASS-403-30	c 18	N89-28554 *	US-PATENT-CLASS-414-328	c 85	N85-34722 *	US-PATENT-CLASS-416-162	c 07	N77-14025 *
US-PATENT-CLASS-403-312	c 37	N86-27630 *	US-PATENT-CLASS-414-373	c 85	N85-34722 *	US-PATENT-CLASS-416-162	c 07	N79-14095 *
US-PATENT-CLASS-403-315	c 37	N82-24494 *	US-PATENT-CLASS-414-4	c 37	N79-28551 *	US-PATENT-CLASS-416-165	c 07	N77-14025 *
US-PATENT-CLASS-403-317	c 37	N82-32732 *	US-PATENT-CLASS-414-4	c 54	N81-26718 *	US-PATENT-CLASS-416-167	c 07	N77-14025 *
US-PATENT-CLASS-403-317	c 37	N85-21649 *	US-PATENT-CLASS-414-4	c 37	N86-20789 *	US-PATENT-CLASS-416-167	c 07	N79-14095 *
US-PATENT-CLASS-403-317	c 37	N91-14610 *	US-PATENT-CLASS-414-5	c 54	N86-28618 *	US-PATENT-CLASS-416-190	c 07	N77-32148 *
US-PATENT-CLASS-403-322	c 18	N84-22605 *	US-PATENT-CLASS-414-689	c 18	N89-12621 *	US-PATENT-CLASS-416-193A	c 07	N77-32148 *
US-PATENT-CLASS-403-322	c 37	N85-30334 *	US-PATENT-CLASS-414-6	c 54	N79-24652 *	US-PATENT-CLASS-416-1	c 34	N83-27144 *
US-PATENT-CLASS-403-322	c 37	N85-30336 *	US-PATENT-CLASS-414-718	c 37	N86-20789 *	US-PATENT-CLASS-416-200	c 02	N72-11018 *
US-PATENT-CLASS-403-322	c 37	N90-17154 *	US-PATENT-CLASS-414-718	c 18	N89-12621 *	US-PATENT-CLASS-416-214A	c 07	N78-33101 *
US-PATENT-CLASS-403-322	c 37	N91-14614 *	US-PATENT-CLASS-414-729	c 37	N91-14616 *	US-PATENT-CLASS-416-220R	c 07	N77-27116 *
US-PATENT-CLASS-403-325	c 37	N90-17154 *	US-PATENT-CLASS-414-730	c 37	N81-27519 *	US-PATENT-CLASS-416-220R	c 37	N78-10468 *
US-PATENT-CLASS-403-327	c 37	N91-14610 *	US-PATENT-CLASS-414-730	c 37	N86-19603 *	US-PATENT-CLASS-416-221	c 07	N77-27116 *
US-PATENT-CLASS-403-327	c 37	N91-14614 *	US-PATENT-CLASS-414-735	c 54	N81-26718 *	US-PATENT-CLASS-416-223-R	c 02	N89-14224 *
US-PATENT-CLASS-403-328	c 18	N86-20469 *	US-PATENT-CLASS-414-735	c 18	N88-23828 *	US-PATENT-CLASS-416-223R	c 02	N84-11136 *
US-PATENT-CLASS-403-328	c 37	N90-17154 *	US-PATENT-CLASS-414-735	c 18	N89-12621 *	US-PATENT-CLASS-416-223R	c 02	N84-28732 *
US-PATENT-CLASS-403-328	c 31	N92-16161 *	US-PATENT-CLASS-414-739	c 37	N82-32731 *	US-PATENT-CLASS-416-223	c 07	N74-28226 *
US-PATENT-CLASS-403-331	c 37	N82-32732 *	US-PATENT-CLASS-414-744A	c 54	N81-26718 *	US-PATENT-CLASS-416-224	c 24	N77-19170 *
US-PATENT-CLASS-403-331	c 37	N91-14610 *	US-PATENT-CLASS-414-750	c 18	N88-23828 *	US-PATENT-CLASS-416-224	c 07	N84-22560 *
US-PATENT-CLASS-403-331	c 37	N91-14614 *	US-PATENT-CLASS-414-753	c 37	N86-20789 *	US-PATENT-CLASS-416-228	c 05	N80-14107 *
US-PATENT-CLASS-403-334	c 37	N91-15544 *	US-PATENT-CLASS-414-786	c 85	N85-34722 *	US-PATENT-CLASS-416-230	c 24	N77-19170 *
US-PATENT-CLASS-403-340	c 37	N82-32732 *	US-PATENT-CLASS-414-7	c 54	N86-28618 *	US-PATENT-CLASS-416-233	c 07	N84-22560 *
US-PATENT-CLASS-403-341	c 18	N87-27713 *	US-PATENT-CLASS-414-7	c 54	N86-28620 *	US-PATENT-CLASS-416-237	c 07	N74-28226 *
US-PATENT-CLASS-403-348	c 37	N85-30336 *	US-PATENT-CLASS-414-7	c 37	N91-14616 *	US-PATENT-CLASS-416-238	c 05	N80-14107 *
US-PATENT-CLASS-403-381	c 37	N91-14610 *	US-PATENT-CLASS-414-8	c 54	N86-28618 *	US-PATENT-CLASS-416-23	c 05	N85-29947 *
US-PATENT-CLASS-403-385	c 37	N91-14617 *	US-PATENT-CLASS-415-DIG.8	c 44	N82-24639 *	US-PATENT-CLASS-416-241A	c 07	N77-32148 *
US-PATENT-CLASS-403-388	c 37	N86-27630 *	US-PATENT-CLASS-415-DIG.8	c 44	N84-23018 *	US-PATENT-CLASS-416-241R	c 26	N84-33555 *
US-PATENT-CLASS-403-391	c 37	N91-14617 *	US-PATENT-CLASS-415-101	c 44	N80-21828 *	US-PATENT-CLASS-416-242	c 02	N84-11136 *
US-PATENT-CLASS-403-408.1	c 37	N86-27630 *	US-PATENT-CLASS-415-115	c 07	N79-10057 *	US-PATENT-CLASS-416-242	c 02	N84-28732 *
US-PATENT-CLASS-403-408	c 37	N85-29285 *	US-PATENT-CLASS-415-115	c 34	N83-27144 *	US-PATENT-CLASS-416-244A	c 07	N78-33101 *
US-PATENT-CLASS-403-4	c 18	N89-28554 *	US-PATENT-CLASS-415-115	c 07	N84-33410 *	US-PATENT-CLASS-416-248	c 37	N78-10468 *
US-PATENT-CLASS-403-51	c 18	N89-28553 *	US-PATENT-CLASS-415-115	c 34	N85-33433 *	US-PATENT-CLASS-416-25	c 05	N75-12930 *
US-PATENT-CLASS-403-56	c 18	N85-29991 *	US-PATENT-CLASS-415-116	c 07	N79-10057 *	US-PATENT-CLASS-416-2	c 44	N79-14527 *
US-PATENT-CLASS-403-57	c 37	N91-17387 *	US-PATENT-CLASS-415-118	c 35	N83-35338 *	US-PATENT-CLASS-416-500	c 05	N81-19087 *
US-PATENT-CLASS-403-64	c 31	N86-19479 *	US-PATENT-CLASS-415-136	c 37	N88-23978 *	US-PATENT-CLASS-416-500	c 05	N85-29947 *
US-PATENT-CLASS-403-72	c 18	N91-27199 *	US-PATENT-CLASS-415-143	c 34	N79-20335 *	US-PATENT-CLASS-416-51	c 05	N79-17847 *
US-PATENT-CLASS-403-76	c 18	N85-29991 *	US-PATENT-CLASS-415-145	c 07	N77-28118 *	US-PATENT-CLASS-416-61	c 35	N78-24515 *
US-PATENT-CLASS-403-85	c 18	N87-14373 *	US-PATENT-CLASS-415-145	c 07	N82-32366 *	US-PATENT-CLASS-416-61	c 37	N79-14382 *
US-PATENT-CLASS-403-90	c 18	N85-29991 *	US-PATENT-CLASS-415-170.1	c 37	N91-14608 *	US-PATENT-CLASS-416-88	c 05	N79-17847 *
US-PATENT-CLASS-405-188	c 18	N90-20126 *	US-PATENT-CLASS-415-170-R	c 37	N88-23978 *	US-PATENT-CLASS-416-89	c 05	N79-17847 *
US-PATENT-CLASS-405-188	c 18	N91-14374 *	US-PATENT-CLASS-415-174.5	c 37	N91-14608 *	US-PATENT-CLASS-416-92	c 07	N84-22560 *
US-PATENT-CLASS-405-229	c 44	N79-24432 *	US-PATENT-CLASS-415-174	c 37	N79-18318 *	US-PATENT-CLASS-416-97A	c 34	N85-33433 *
US-PATENT-CLASS-405-263	c 44	N79-24432 *	US-PATENT-CLASS-415-174	c 37	N80-26658 *	US-PATENT-CLASS-416-97R	c 34	N83-27144 *
US-PATENT-CLASS-406-155	c 37	N84-16561 *	US-PATENT-CLASS-415-174	c 37	N82-19540 *	US-PATENT-CLASS-416-97R	c 07	N84-22560 *
US-PATENT-CLASS-407-117	c 37	N81-14319 *	US-PATENT-CLASS-415-174	c 27	N82-29453 *	US-PATENT-CLASS-416-9	c 37	N90-23742 *
US-PATENT-CLASS-407-85	c 37	N81-14319 *	US-PATENT-CLASS-415-174	c 18	N83-20996 *	US-PATENT-CLASS-417-138	c 35	N75-19611 *

US-PATENT-CLASS-417-141	c 44	N76-29701 *	US-PATENT-CLASS-422-249	c 33	N81-19389 *	US-PATENT-CLASS-423-648R	c 28	N81-14103 *
US-PATENT-CLASS-417-152	c 15	N72-22489 *	US-PATENT-CLASS-422-249	c 76	N84-35113 *	US-PATENT-CLASS-423-648R	c 25	N82-28368 *
US-PATENT-CLASS-417-159	c 09	N84-27749 *	US-PATENT-CLASS-422-249	c 76	N90-20896 *	US-PATENT-CLASS-423-648R	c 25	N83-29324 *
US-PATENT-CLASS-417-15	c 37	N83-26078 *	US-PATENT-CLASS-422-251	c 76	N88-14835 *	US-PATENT-CLASS-423-649	c 25	N83-29324 *
US-PATENT-CLASS-417-190	c 35	N91-21496 *	US-PATENT-CLASS-422-260	c 76	N88-14835 *	US-PATENT-CLASS-423-650	c 44	N76-18642 *
US-PATENT-CLASS-417-207	c 44	N76-29701 *	US-PATENT-CLASS-422-27	c 54	N81-24724 *	US-PATENT-CLASS-423-650	c 44	N76-29700 *
US-PATENT-CLASS-417-209	c 34	N76-17317 *	US-PATENT-CLASS-422-30	c 54	N81-24724 *	US-PATENT-CLASS-423-650	c 44	N76-29704 *
US-PATENT-CLASS-417-209	c 44	N76-29701 *	US-PATENT-CLASS-422-34	c 54	N81-24724 *	US-PATENT-CLASS-423-650	c 44	N77-10636 *
US-PATENT-CLASS-417-225	c 35	N78-10428 *	US-PATENT-CLASS-422-3	c 54	N81-24724 *	US-PATENT-CLASS-423-650	c 28	N80-10374 *
US-PATENT-CLASS-417-328	c 37	N84-28081 *	US-PATENT-CLASS-422-40	c 35	N82-11432 *	US-PATENT-CLASS-423-655	c 28	N91-14495 *
US-PATENT-CLASS-417-36	c 35	N75-19611 *	US-PATENT-CLASS-422-41	c 52	N79-14749 *	US-PATENT-CLASS-423-658.5	c 28	N81-15119 *
US-PATENT-CLASS-417-379	c 44	N76-29701 *	US-PATENT-CLASS-422-48	c 52	N79-14749 *	US-PATENT-CLASS-424-12	c 25	N79-14169 *
US-PATENT-CLASS-417-383	c 37	N80-31790 *	US-PATENT-CLASS-422-50	c 76	N90-24169 *	US-PATENT-CLASS-424-12	c 51	N80-16715 *
US-PATENT-CLASS-417-391	c 15	N73-24513 *	US-PATENT-CLASS-422-52	c 51	N80-16714 *	US-PATENT-CLASS-424-156	c 25	N83-33977 *
US-PATENT-CLASS-417-392	c 37	N84-28081 *	US-PATENT-CLASS-422-52	c 51	N83-27569 *	US-PATENT-CLASS-424-180	c 52	N75-15270 *
US-PATENT-CLASS-417-395	c 35	N75-19611 *	US-PATENT-CLASS-422-62	c 35	N90-22025 *	US-PATENT-CLASS-424-247	c 52	N81-29764 *
US-PATENT-CLASS-417-399	c 44	N83-14693 *	US-PATENT-CLASS-422-68	c 51	N80-27067 *	US-PATENT-CLASS-424-267	c 52	N81-29764 *
US-PATENT-CLASS-417-417	c 44	N83-28574 *	US-PATENT-CLASS-422-78	c 25	N86-19413 *	US-PATENT-CLASS-424-274	c 52	N81-14613 *
US-PATENT-CLASS-417-417	c 31	N85-21404 *	US-PATENT-CLASS-422-78	c 09	N91-21157 *	US-PATENT-CLASS-424-274	c 52	N81-29764 *
US-PATENT-CLASS-417-462	c 37	N84-28081 *	US-PATENT-CLASS-422-80	c 25	N82-12166 *	US-PATENT-CLASS-424-3	c 51	N77-27677 *
US-PATENT-CLASS-417-470	c 35	N74-15126 *	US-PATENT-CLASS-422-80	c 09	N91-21157 *	US-PATENT-CLASS-425-DIG.43	c 31	N75-13111 *
US-PATENT-CLASS-417-471	c 35	N74-15126 *	US-PATENT-CLASS-422-83	c 34	N92-16243 *	US-PATENT-CLASS-425-10	c 31	N83-35176 *
US-PATENT-CLASS-417-475	c 37	N86-32738 *	US-PATENT-CLASS-422-86	c 35	N85-29213 *	US-PATENT-CLASS-425-113	c 15	N73-13464 *
US-PATENT-CLASS-417-488	c 31	N85-21404 *	US-PATENT-CLASS-422-88	c 35	N85-29213 *	US-PATENT-CLASS-425-128	c 31	N74-32920 *
US-PATENT-CLASS-417-50	c 15	N71-27084 *	US-PATENT-CLASS-422-93	c 34	N92-16243 *	US-PATENT-CLASS-425-133	c 15	N73-13464 *
US-PATENT-CLASS-417-52	c 37	N74-27904 *	US-PATENT-CLASS-422-98	c 35	N90-22025 *	US-PATENT-CLASS-425-176	c 15	N73-13464 *
US-PATENT-CLASS-417-53	c 31	N90-23587 *	US-PATENT-CLASS-422-99	c 51	N91-31755 *	US-PATENT-CLASS-425-288	c 31	N74-32917 *
US-PATENT-CLASS-417-572	c 31	N90-23587 *	US-PATENT-CLASS-422-9	c 45	N80-14579 *	US-PATENT-CLASS-425-35	c 31	N74-32917 *
US-PATENT-CLASS-417-88	c 44	N78-32539 *	US-PATENT-CLASS-423-DIG.10	c 24	N84-22695 *	US-PATENT-CLASS-425-376R	c 31	N81-15154 *
US-PATENT-CLASS-418-113	c 37	N82-16408 *	US-PATENT-CLASS-423-DIG.10	c 31	N85-20153 *	US-PATENT-CLASS-425-4-R	c 27	N88-23894 *
US-PATENT-CLASS-418-142	c 37	N82-16408 *	US-PATENT-CLASS-423-131	c 28	N81-15119 *	US-PATENT-CLASS-425-405R	c 31	N75-13111 *
US-PATENT-CLASS-419-14	c 24	N91-27244 *	US-PATENT-CLASS-423-149	c 26	N80-14229 *	US-PATENT-CLASS-425-415	c 31	N74-32920 *
US-PATENT-CLASS-419-24	c 24	N90-23493 *	US-PATENT-CLASS-423-1	c 28	N81-15119 *	US-PATENT-CLASS-425-425	c 31	N90-19425 *
US-PATENT-CLASS-419-24	c 24	N91-17145 *	US-PATENT-CLASS-423-231	c 25	N74-12813 *	US-PATENT-CLASS-425-435	c 31	N90-19425 *
US-PATENT-CLASS-419-30	c 24	N91-27244 *	US-PATENT-CLASS-423-235	c 25	N82-28368 *	US-PATENT-CLASS-425-438	c 31	N75-13111 *
US-PATENT-CLASS-419-32	c 24	N91-27244 *	US-PATENT-CLASS-423-242	c 45	N79-12584 *	US-PATENT-CLASS-425-468	c 31	N75-13111 *
US-PATENT-CLASS-419-36	c 24	N90-23493 *	US-PATENT-CLASS-423-247	c 25	N91-21270 *	US-PATENT-CLASS-425-5	c 34	N90-23700 *
US-PATENT-CLASS-419-36	c 24	N91-17145 *	US-PATENT-CLASS-423-249	c 25	N76-27383 *	US-PATENT-CLASS-425-6	c 31	N81-33319 *
US-PATENT-CLASS-419-36	c 24	N91-27244 *	US-PATENT-CLASS-423-276	c 23	N87-23698 *	US-PATENT-CLASS-425-6	c 27	N82-28442 *
US-PATENT-CLASS-419-37	c 24	N90-23493 *	US-PATENT-CLASS-423-284	c 23	N87-23698 *	US-PATENT-CLASS-425-6	c 31	N83-31896 *
US-PATENT-CLASS-419-37	c 24	N91-17145 *	US-PATENT-CLASS-423-293	c 26	N80-14229 *	US-PATENT-CLASS-425-6	c 31	N83-35176 *
US-PATENT-CLASS-419-38	c 24	N91-27244 *	US-PATENT-CLASS-423-303	c 44	N84-23019 *	US-PATENT-CLASS-425-6	c 71	N84-28568 *
US-PATENT-CLASS-419-39	c 24	N91-27244 *	US-PATENT-CLASS-423-33-5	c 25	N79-28253 *	US-PATENT-CLASS-425-6	c 26	N86-32551 *
US-PATENT-CLASS-419-48	c 24	N91-17145 *	US-PATENT-CLASS-423-338	c 76	N87-29360 *	US-PATENT-CLASS-425-6	c 34	N90-23700 *
US-PATENT-CLASS-419-49	c 24	N91-17145 *	US-PATENT-CLASS-423-339	c 76	N87-29360 *	US-PATENT-CLASS-425-73	c 31	N90-19425 *
US-PATENT-CLASS-419-49	c 24	N91-27244 *	US-PATENT-CLASS-423-345	c 76	N76-25049 *	US-PATENT-CLASS-425-75	c 31	N90-19425 *
US-PATENT-CLASS-419-8	c 24	N90-23493 *	US-PATENT-CLASS-423-345	c 76	N79-23798 *	US-PATENT-CLASS-425-77	c 15	N72-20446 *
US-PATENT-CLASS-419-8	c 24	N91-17145 *	US-PATENT-CLASS-423-346	c 76	N76-25049 *	US-PATENT-CLASS-425-7	c 31	N83-35176 *
US-PATENT-CLASS-42-1.13	c 03	N91-15142 *	US-PATENT-CLASS-423-348	c 26	N80-14229 *	US-PATENT-CLASS-425-804	c 34	N90-23700 *
US-PATENT-CLASS-42-1F	c 11	N72-22247 *	US-PATENT-CLASS-423-350	c 37	N80-10494 *	US-PATENT-CLASS-427-113	c 44	N76-28635 *
US-PATENT-CLASS-42-101	c 44	N86-25874 *	US-PATENT-CLASS-423-350	c 31	N80-18231 *	US-PATENT-CLASS-427-113	c 44	N78-24609 *
US-PATENT-CLASS-42-215	c 44	N76-29704 *	US-PATENT-CLASS-423-352	c 36	N76-18427 *	US-PATENT-CLASS-427-113	c 44	N84-28205 *
US-PATENT-CLASS-420-445	c 26	N82-31505 *	US-PATENT-CLASS-423-407	c 24	N76-14203 *	US-PATENT-CLASS-427-115	c 25	N82-21268 *
US-PATENT-CLASS-420-460	c 26	N87-14482 *	US-PATENT-CLASS-423-414	c 24	N84-22695 *	US-PATENT-CLASS-427-115	c 26	N84-22734 *
US-PATENT-CLASS-420-529	c 26	N89-28621 *	US-PATENT-CLASS-423-414	c 31	N85-20153 *	US-PATENT-CLASS-427-115	c 44	N84-28205 *
US-PATENT-CLASS-420-533	c 26	N89-28621 *	US-PATENT-CLASS-423-417	c 26	N80-14229 *	US-PATENT-CLASS-427-123	c 44	N79-11472 *
US-PATENT-CLASS-420-54	c 26	N89-14303 *	US-PATENT-CLASS-423-419P	c 25	N83-33977 *	US-PATENT-CLASS-427-124	c 37	N78-13436 *
US-PATENT-CLASS-420-551	c 26	N82-31505 *	US-PATENT-CLASS-423-439	c 24	N91-15320 *	US-PATENT-CLASS-427-125	c 26	N84-22734 *
US-PATENT-CLASS-420-588	c 26	N82-31505 *	US-PATENT-CLASS-423-439	c 27	N92-10090 *	US-PATENT-CLASS-427-125	c 44	N84-28205 *
US-PATENT-CLASS-420-62	c 26	N89-14303 *	US-PATENT-CLASS-423-445	c 24	N84-22695 *	US-PATENT-CLASS-427-126.6	c 26	N84-22734 *
US-PATENT-CLASS-420-79	c 26	N89-14303 *	US-PATENT-CLASS-423-445	c 31	N85-20153 *	US-PATENT-CLASS-427-126	c 37	N78-13436 *
US-PATENT-CLASS-420-80	c 26	N89-14303 *	US-PATENT-CLASS-423-445	c 24	N85-21267 *	US-PATENT-CLASS-427-126	c 44	N79-11472 *
US-PATENT-CLASS-420-81	c 26	N89-14303 *	US-PATENT-CLASS-423-446	c 15	N73-19457 *	US-PATENT-CLASS-427-130	c 44	N77-32583 *
US-PATENT-CLASS-421-209	c 33	N91-31529 *	US-PATENT-CLASS-423-446	c 24	N84-22695 *	US-PATENT-CLASS-427-140	c 27	N82-33520 *
US-PATENT-CLASS-421-457	c 33	N91-31529 *	US-PATENT-CLASS-423-446	c 31	N85-20153 *	US-PATENT-CLASS-427-140	c 24	N83-13172 *
US-PATENT-CLASS-422-101	c 51	N91-31755 *	US-PATENT-CLASS-423-446	c 24	N85-21267 *	US-PATENT-CLASS-427-160	c 34	N77-18382 *
US-PATENT-CLASS-422-103	c 35	N85-29213 *	US-PATENT-CLASS-423-447.2	c 24	N83-25789 *	US-PATENT-CLASS-427-160	c 44	N78-19599 *
US-PATENT-CLASS-422-104	c 09	N91-21157 *	US-PATENT-CLASS-423-447.2	c 24	N92-16025 *	US-PATENT-CLASS-427-162	c 12	N76-15189 *
US-PATENT-CLASS-422-109	c 54	N81-24724 *	US-PATENT-CLASS-423-447.6	c 24	N83-25789 *	US-PATENT-CLASS-427-162	c 27	N86-31727 *
US-PATENT-CLASS-422-111	c 35	N90-22025 *	US-PATENT-CLASS-423-447.7	c 24	N83-25789 *	US-PATENT-CLASS-427-164	c 27	N78-14164 *
US-PATENT-CLASS-422-121	c 35	N84-17555 *	US-PATENT-CLASS-423-448	c 24	N91-15320 *	US-PATENT-CLASS-427-164	c 27	N78-31233 *
US-PATENT-CLASS-422-126	c 35	N90-22025 *	US-PATENT-CLASS-423-448	c 27	N92-10090 *	US-PATENT-CLASS-427-164	c 74	N78-32854 *
US-PATENT-CLASS-422-129	c 37	N85-21652 *	US-PATENT-CLASS-423-448	c 24	N92-16025 *	US-PATENT-CLASS-427-164	c 27	N80-24437 *
US-PATENT-CLASS-422-169	c 35	N84-17555 *	US-PATENT-CLASS-423-449	c 24	N84-22695 *	US-PATENT-CLASS-427-164	c 27	N86-31727 *
US-PATENT-CLASS-422-176	c 34	N92-16243 *	US-PATENT-CLASS-423-449	c 31	N85-20153 *	US-PATENT-CLASS-427-165	c 27	N86-31727 *
US-PATENT-CLASS-422-178	c 35	N84-17555 *	US-PATENT-CLASS-423-449	c 24	N85-21267 *	US-PATENT-CLASS-427-178	c 24	N85-30027 *
US-PATENT-CLASS-422-186	c 25	N82-28368 *	US-PATENT-CLASS-423-460	c 24	N91-15320 *	US-PATENT-CLASS-427-185	c 24	N92-10070 *
US-PATENT-CLASS-422-186	c 35	N84-17555 *	US-PATENT-CLASS-423-460	c 27	N92-10090 *	US-PATENT-CLASS-427-191	c 26	N85-35267 *
US-PATENT-CLASS-422-187	c 37	N80-10494 *	US-PATENT-CLASS-423-460	c 24	N92-16025 *	US-PATENT-CLASS-427-191	c 26	N86-32550 *
US-PATENT-CLASS-422-198	c 25	N82-28368 *	US-PATENT-CLASS-423-489	c 24	N91-15320 *	US-PATENT-CLASS-427-192	c 26	N86-32550 *
US-PATENT-CLASS-422-199	c 37	N80-10494 *	US-PATENT-CLASS-423-539	c 25	N82-28368 *	US-PATENT-CLASS-427-195	c 24	N92-10070 *
US-PATENT-CLASS-422-199	c 37	N85-21652 *	US-PATENT-CLASS-423-540	c 25	N82-28368 *	US-PATENT-CLASS-427-196	c 27	N76-15310 *
US-PATENT-CLASS-422-200	c 44	N83-10501 *	US-PATENT-CLASS-423-542	c 25	N82-28368 *	US-PATENT-CLASS-427-203	c 27	N76-16229 *
US-PATENT-CLASS-422-202	c 44	N83-10501 *	US-PATENT-CLASS-423-579	c 46	N74-13011 *	US-PATENT-CLASS-427-204	c 27	N76-16229 *
US-PATENT-CLASS-422-208	c 37	N80-10494 *	US-PATENT-CLASS-423-579	c 25	N82-28368 *	US-PATENT-CLASS-427-205	c 27	N76-16229 *
US-PATENT-CLASS-422-224	c 31	N80-18231 *	US-PATENT-CLASS-423-581	c 25	N79-10162 *	US-PATENT-CLASS-427-205	c 27	N82-28441 *
US-PATENT-CLASS-422-224	c 44	N83-10501 *	US-PATENT-CLASS-423-582	c 26	N78-32229 *	US-PATENT-CLASS-427-215	c 27	N81-32260 *
US-PATENT-CLASS-422-235	c 37	N80-10494 *	US-PATENT-CLASS-423-583	c 26	N78-32229 *	US-PATENT-CLASS-427-215	c 24	N83-33950 *
US-PATENT-CLASS-422-242	c 37	N80-10494 *	US-PATENT-CLASS-423-600	c 25	N83-33977 *	US-PATENT-CLASS-427-216	c 33	N84-16456 *
US-PATENT-CLASS-422-245	c 76	N90-23242 *	US-PATENT-CLASS-423-625	c 15	N73-19457 *	US-PATENT-CLASS-427-217	c 33	N84-16456 *
US-PATENT-CLASS-422-245	c 76	N90-24169 *	US-PATENT-CLASS-423-625	c 26	N80-14229 *	US-PATENT-CLASS-427-219.2	c 27	N83-31855 *
US-PATENT-CLASS-422-246	c 76	N80-32244 *	US-PATENT-CLASS-423-630	c 27	N92-16122 *	US-PATENT-CLASS-427-221	c 27	N81-19296 *
US-PATENT-CLASS-422-246	c 33	N81-19389 *	US-PATENT-CLASS-423-644	c 36	N76-18427 *	US-PATENT-CLASS-427-226	c 33	N84-16456 *
US-PATENT-CLASS-422-246	c 76	N82-30105 *	US-PATENT-CLASS-423-648R	c 44	N77-22607 *	US-PATENT-CLASS-427-226	c 44	N84-28205 *
US-PATENT-CLASS-422-246	c 76	N84-35113 *	US-PATENT-CLASS-423-648R	c 28	N78-24365 *	US-PATENT-CLASS-427-228	c 26	N85-35267 *
US-PATENT-CLASS-422-246	c 76	N88-24544 *	US-PATENT-CLASS-423-648R	c 28	N80-20402 *	US-PATENT-CLASS-427-229	c 25	N78-10225 *

REPORT NUMBER INDEX

US-PATENT-CLASS-428-325

US-PATENT-CLASS-427-229	c 37	N87-21334 *	US-PATENT-CLASS-427-387	c 24	N83-13172 *	US-PATENT-CLASS-428-117	c 24	N78-15180 *
US-PATENT-CLASS-427-230	c 37	N76-31524 *	US-PATENT-CLASS-427-388.1	c 27	N86-20561 *	US-PATENT-CLASS-428-117	c 24	N79-16915 *
US-PATENT-CLASS-427-240	c 37	N81-33482 *	US-PATENT-CLASS-427-388A	c 24	N78-27180 *	US-PATENT-CLASS-428-119	c 24	N79-16915 *
US-PATENT-CLASS-427-241	c 24	N83-33950 *	US-PATENT-CLASS-427-38	c 74	N78-32854 *	US-PATENT-CLASS-428-133	c 37	N79-10422 *
US-PATENT-CLASS-427-243	c 31	N83-35177 *	US-PATENT-CLASS-427-38	c 27	N80-24437 *	US-PATENT-CLASS-428-137	c 24	N79-25142 *
US-PATENT-CLASS-427-244	c 25	N82-21268 *	US-PATENT-CLASS-427-38	c 26	N85-29005 *	US-PATENT-CLASS-428-138	c 24	N78-10214 *
US-PATENT-CLASS-427-245	c 27	N80-23452 *	US-PATENT-CLASS-427-38	c 27	N86-19458 *	US-PATENT-CLASS-428-139	c 23	N81-29160 *
US-PATENT-CLASS-427-245	c 31	N88-29052 *	US-PATENT-CLASS-427-38	c 26	N88-14179 *	US-PATENT-CLASS-428-140	c 24	N81-14000 *
US-PATENT-CLASS-427-246	c 25	N82-21268 *	US-PATENT-CLASS-427-393.3	c 27	N82-16238 *	US-PATENT-CLASS-428-141	c 24	N77-28225 *
US-PATENT-CLASS-427-247	c 31	N83-35177 *	US-PATENT-CLASS-427-397.7	c 27	N82-33520 *	US-PATENT-CLASS-428-141	c 27	N82-28440 *
US-PATENT-CLASS-427-248.1	c 27	N86-19458 *	US-PATENT-CLASS-427-397.7	c 26	N85-35267 *	US-PATENT-CLASS-428-141	c 27	N82-33521 *
US-PATENT-CLASS-427-248E	c 37	N78-13436 *	US-PATENT-CLASS-427-398A	c 44	N79-11472 *	US-PATENT-CLASS-428-155	c 37	N84-22957 *
US-PATENT-CLASS-427-248J	c 44	N78-24609 *	US-PATENT-CLASS-427-399	c 44	N79-11472 *	US-PATENT-CLASS-428-161	c 24	N77-28225 *
US-PATENT-CLASS-427-248	c 44	N76-28635 *	US-PATENT-CLASS-427-399	c 36	N84-22944 *	US-PATENT-CLASS-428-182	c 18	N84-33450 *
US-PATENT-CLASS-427-249	c 44	N76-28635 *	US-PATENT-CLASS-427-39	c 24	N85-21267 *	US-PATENT-CLASS-428-182	c 31	N89-12786 *
US-PATENT-CLASS-427-249	c 44	N78-24609 *	US-PATENT-CLASS-427-39	c 31	N86-32587 *	US-PATENT-CLASS-428-184	c 18	N84-33450 *
US-PATENT-CLASS-427-250	c 12	N76-15189 *	US-PATENT-CLASS-427-400	c 27	N83-34039 *	US-PATENT-CLASS-428-189	c 27	N79-12221 *
US-PATENT-CLASS-427-250	c 44	N76-28635 *	US-PATENT-CLASS-427-402	c 27	N76-22377 *	US-PATENT-CLASS-428-192	c 27	N82-24339 *
US-PATENT-CLASS-427-250	c 37	N78-13436 *	US-PATENT-CLASS-427-402	c 27	N76-23426 *	US-PATENT-CLASS-428-193	c 27	N82-24339 *
US-PATENT-CLASS-427-253	c 27	N82-28441 *	US-PATENT-CLASS-427-405	c 34	N78-18355 *	US-PATENT-CLASS-428-202	c 27	N84-14323 *
US-PATENT-CLASS-427-255	c 37	N78-13436 *	US-PATENT-CLASS-427-405	c 27	N82-28441 *	US-PATENT-CLASS-428-212	c 27	N76-14264 *
US-PATENT-CLASS-427-261	c 44	N78-25527 *	US-PATENT-CLASS-427-405	c 27	N83-31855 *	US-PATENT-CLASS-428-212	c 27	N79-12221 *
US-PATENT-CLASS-427-261	c 44	N79-11472 *	US-PATENT-CLASS-427-405	c 26	N84-27855 *	US-PATENT-CLASS-428-212	c 27	N82-29456 *
US-PATENT-CLASS-427-270	c 27	N76-16229 *	US-PATENT-CLASS-427-407.1	c 27	N83-34039 *	US-PATENT-CLASS-428-212	c 24	N92-21725 *
US-PATENT-CLASS-427-272	c 31	N90-19427 *	US-PATENT-CLASS-427-40	c 27	N78-31233 *	US-PATENT-CLASS-428-213	c 24	N92-21725 *
US-PATENT-CLASS-427-272	c 24	N90-25197 *	US-PATENT-CLASS-427-40	c 27	N79-18052 *	US-PATENT-CLASS-428-214	c 27	N76-14264 *
US-PATENT-CLASS-427-275	c 27	N76-16229 *	US-PATENT-CLASS-427-40	c 27	N80-24437 *	US-PATENT-CLASS-428-215	c 27	N92-10091 *
US-PATENT-CLASS-427-282	c 24	N90-25197 *	US-PATENT-CLASS-427-419.1	c 76	N92-22040 *	US-PATENT-CLASS-428-216	c 76	N90-24168 *
US-PATENT-CLASS-427-287	c 27	N76-16229 *	US-PATENT-CLASS-427-419.2	c 26	N83-31795 *	US-PATENT-CLASS-428-218	c 27	N82-29456 *
US-PATENT-CLASS-427-290	c 24	N90-25197 *	US-PATENT-CLASS-427-419.2	c 26	N84-27855 *	US-PATENT-CLASS-428-218	c 24	N83-13171 *
US-PATENT-CLASS-427-292	c 24	N79-17916 *	US-PATENT-CLASS-427-419.2	c 76	N92-22040 *	US-PATENT-CLASS-428-220	c 15	N79-26100 *
US-PATENT-CLASS-427-292	c 24	N83-13172 *	US-PATENT-CLASS-427-419A	c 34	N78-18355 *	US-PATENT-CLASS-428-241	c 27	N82-24339 *
US-PATENT-CLASS-427-294	c 27	N79-14214 *	US-PATENT-CLASS-427-41	c 27	N78-31233 *	US-PATENT-CLASS-428-241	c 27	N83-18908 *
US-PATENT-CLASS-427-294	c 26	N85-35267 *	US-PATENT-CLASS-427-41	c 74	N78-32854 *	US-PATENT-CLASS-428-242	c 27	N82-24339 *
US-PATENT-CLASS-427-294	c 24	N92-16025 *	US-PATENT-CLASS-427-41	c 27	N79-14214 *	US-PATENT-CLASS-428-244	c 27	N83-18908 *
US-PATENT-CLASS-427-296	c 26	N84-22734 *	US-PATENT-CLASS-427-41	c 27	N79-18052 *	US-PATENT-CLASS-428-245	c 27	N82-24339 *
US-PATENT-CLASS-427-2	c 52	N90-20616 *	US-PATENT-CLASS-427-41	c 27	N80-23452 *	US-PATENT-CLASS-428-245	c 27	N83-18908 *
US-PATENT-CLASS-427-302	c 74	N78-32854 *	US-PATENT-CLASS-427-421	c 71	N84-16940 *	US-PATENT-CLASS-428-246	c 27	N84-14322 *
US-PATENT-CLASS-427-302	c 24	N83-13172 *	US-PATENT-CLASS-427-421	c 26	N86-32550 *	US-PATENT-CLASS-428-246	c 03	N84-33394 *
US-PATENT-CLASS-427-306	c 26	N84-22734 *	US-PATENT-CLASS-427-422	c 24	N85-30027 *	US-PATENT-CLASS-428-247	c 33	N79-12331 *
US-PATENT-CLASS-427-318	c 26	N83-31795 *	US-PATENT-CLASS-427-423	c 34	N78-18355 *	US-PATENT-CLASS-428-247	c 33	N82-26571 *
US-PATENT-CLASS-427-322	c 34	N77-18382 *	US-PATENT-CLASS-427-423	c 27	N82-29453 *	US-PATENT-CLASS-428-251	c 27	N82-24339 *
US-PATENT-CLASS-427-322	c 74	N78-32854 *	US-PATENT-CLASS-427-423	c 27	N83-31855 *	US-PATENT-CLASS-428-252	c 54	N90-25498 *
US-PATENT-CLASS-427-322	c 27	N83-34039 *	US-PATENT-CLASS-427-423	c 31	N83-35177 *	US-PATENT-CLASS-428-257	c 27	N82-24339 *
US-PATENT-CLASS-427-327	c 24	N79-17916 *	US-PATENT-CLASS-427-423	c 37	N84-22957 *	US-PATENT-CLASS-428-258	c 33	N79-12331 *
US-PATENT-CLASS-427-328	c 24	N79-17916 *	US-PATENT-CLASS-427-425	c 37	N82-24492 *	US-PATENT-CLASS-428-259	c 33	N79-12331 *
US-PATENT-CLASS-427-340	c 27	N83-34039 *	US-PATENT-CLASS-427-426	c 27	N76-15310 *	US-PATENT-CLASS-428-260	c 27	N81-27272 *
US-PATENT-CLASS-427-343	c 44	N79-11472 *	US-PATENT-CLASS-427-426	c 71	N84-16940 *	US-PATENT-CLASS-428-260	c 27	N82-24339 *
US-PATENT-CLASS-427-343	c 76	N92-10681 *	US-PATENT-CLASS-427-427	c 24	N78-24290 *	US-PATENT-CLASS-428-260	c 27	N83-18908 *
US-PATENT-CLASS-427-346	c 71	N84-16940 *	US-PATENT-CLASS-427-427	c 26	N86-32550 *	US-PATENT-CLASS-428-260	c 27	N84-14322 *
US-PATENT-CLASS-427-34	c 34	N78-18355 *	US-PATENT-CLASS-427-429	c 27	N81-14078 *	US-PATENT-CLASS-428-260	c 27	N85-34281 *
US-PATENT-CLASS-427-34	c 24	N79-17916 *	US-PATENT-CLASS-427-436	c 33	N84-16456 *	US-PATENT-CLASS-428-262	c 27	N87-14516 *
US-PATENT-CLASS-427-34	c 27	N82-29453 *	US-PATENT-CLASS-427-437	c 33	N84-16456 *	US-PATENT-CLASS-428-263	c 27	N82-16238 *
US-PATENT-CLASS-427-34	c 27	N83-31855 *	US-PATENT-CLASS-427-443.2	c 25	N84-12262 *	US-PATENT-CLASS-428-264	c 27	N82-16238 *
US-PATENT-CLASS-427-34	c 31	N83-35177 *	US-PATENT-CLASS-427-443.2	c 24	N92-16025 *	US-PATENT-CLASS-428-265	c 27	N82-16238 *
US-PATENT-CLASS-427-34	c 37	N84-22957 *	US-PATENT-CLASS-427-443	c 44	N84-28205 *	US-PATENT-CLASS-428-266	c 27	N82-24339 *
US-PATENT-CLASS-427-34	c 26	N84-27855 *	US-PATENT-CLASS-427-44	c 74	N78-32854 *	US-PATENT-CLASS-428-267	c 27	N82-16238 *
US-PATENT-CLASS-427-34	c 75	N91-25875 *	US-PATENT-CLASS-427-44	c 27	N80-32516 *	US-PATENT-CLASS-428-272	c 27	N82-16238 *
US-PATENT-CLASS-427-350	c 24	N79-25142 *	US-PATENT-CLASS-427-47	c 44	N77-32583 *	US-PATENT-CLASS-428-280	c 27	N79-12221 *
US-PATENT-CLASS-427-352	c 27	N83-34039 *	US-PATENT-CLASS-427-47	c 26	N85-29005 *	US-PATENT-CLASS-428-280	c 03	N84-33394 *
US-PATENT-CLASS-427-355	c 24	N79-17916 *	US-PATENT-CLASS-427-4	c 51	N77-27677 *	US-PATENT-CLASS-428-282	c 24	N79-25142 *
US-PATENT-CLASS-427-372.2	c 27	N82-33520 *	US-PATENT-CLASS-427-53.1	c 36	N84-22944 *	US-PATENT-CLASS-428-283	c 24	N82-29362 *
US-PATENT-CLASS-427-372.2	c 44	N84-28205 *	US-PATENT-CLASS-427-53.1	c 37	N84-22957 *	US-PATENT-CLASS-428-283	c 27	N82-29456 *
US-PATENT-CLASS-427-372A	c 24	N79-25142 *	US-PATENT-CLASS-427-531	c 44	N82-28780 *	US-PATENT-CLASS-428-284	c 24	N82-29362 *
US-PATENT-CLASS-427-375	c 24	N92-10070 *	US-PATENT-CLASS-427-57	c 71	N84-16940 *	US-PATENT-CLASS-428-285	c 27	N79-12221 *
US-PATENT-CLASS-427-376.2	c 26	N85-35267 *	US-PATENT-CLASS-427-58	c 33	N84-16456 *	US-PATENT-CLASS-428-285	c 24	N91-31236 *
US-PATENT-CLASS-427-376.6	c 33	N84-16456 *	US-PATENT-CLASS-427-62	c 76	N92-10681 *	US-PATENT-CLASS-428-286	c 27	N79-12221 *
US-PATENT-CLASS-427-376.7	c 33	N84-16456 *	US-PATENT-CLASS-427-62	c 76	N92-22040 *	US-PATENT-CLASS-428-286	c 24	N82-29362 *
US-PATENT-CLASS-427-376A	c 27	N78-32260 *	US-PATENT-CLASS-427-63	c 76	N92-22040 *	US-PATENT-CLASS-428-287	c 24	N82-29362 *
US-PATENT-CLASS-427-376B	c 27	N78-32260 *	US-PATENT-CLASS-427-6	c 71	N84-16940 *	US-PATENT-CLASS-428-287	c 03	N84-33394 *
US-PATENT-CLASS-427-376B	c 24	N79-17916 *	US-PATENT-CLASS-427-74	c 44	N82-28780 *	US-PATENT-CLASS-428-288	c 24	N82-29362 *
US-PATENT-CLASS-427-376C	c 24	N79-17916 *	US-PATENT-CLASS-427-75	c 44	N78-25527 *	US-PATENT-CLASS-428-288	c 27	N89-29538 *
US-PATENT-CLASS-427-376	c 27	N76-22377 *	US-PATENT-CLASS-427-75	c 44	N79-11468 *	US-PATENT-CLASS-428-289	c 27	N82-29456 *
US-PATENT-CLASS-427-376	c 27	N76-23426 *	US-PATENT-CLASS-427-75	c 44	N79-11472 *	US-PATENT-CLASS-428-290	c 24	N78-15180 *
US-PATENT-CLASS-427-379	c 27	N76-22377 *	US-PATENT-CLASS-427-75	c 33	N84-16456 *	US-PATENT-CLASS-428-290	c 24	N79-25142 *
US-PATENT-CLASS-427-379	c 27	N76-23426 *	US-PATENT-CLASS-427-84	c 44	N79-11472 *	US-PATENT-CLASS-428-290	c 27	N87-28657 *
US-PATENT-CLASS-427-379	c 27	N78-32260 *	US-PATENT-CLASS-427-85	c 44	N85-20530 *	US-PATENT-CLASS-428-290	c 54	N90-25498 *
US-PATENT-CLASS-427-379	c 27	N81-19296 *	US-PATENT-CLASS-427-86	c 44	N76-28635 *	US-PATENT-CLASS-428-294	c 24	N78-17150 *
US-PATENT-CLASS-427-379	c 24	N83-13171 *	US-PATENT-CLASS-427-86	c 44	N78-24609 *	US-PATENT-CLASS-428-294	c 76	N83-34796 *
US-PATENT-CLASS-427-379	c 24	N83-13172 *	US-PATENT-CLASS-427-88	c 44	N79-31752 *	US-PATENT-CLASS-428-301	c 24	N77-27188 *
US-PATENT-CLASS-427-379	c 44	N84-28205 *	US-PATENT-CLASS-427-88	c 44	N83-13579 *	US-PATENT-CLASS-428-302	c 24	N78-17150 *
US-PATENT-CLASS-427-379	c 24	N85-30027 *	US-PATENT-CLASS-427-88	c 33	N84-16456 *	US-PATENT-CLASS-428-303	c 27	N76-15310 *
US-PATENT-CLASS-427-380	c 27	N76-22377 *	US-PATENT-CLASS-427-89	c 44	N83-13579 *	US-PATENT-CLASS-428-304	c 03	N84-33394 *
US-PATENT-CLASS-427-380	c 27	N76-23426 *	US-PATENT-CLASS-427-90	c 44	N83-13579 *	US-PATENT-CLASS-428-307.7	c 27	N82-29456 *
US-PATENT-CLASS-427-380	c 27	N78-32260 *	US-PATENT-CLASS-427-91	c 44	N83-13579 *	US-PATENT-CLASS-428-307.7	c 24	N92-16026 *
US-PATENT-CLASS-427-380	c 44	N84-28205 *	US-PATENT-CLASS-427-95	c 25	N79-28253 *	US-PATENT-CLASS-428-311.5	c 27	N82-29456 *
US-PATENT-CLASS-427-380	c 26	N85-35267 *	US-PATENT-CLASS-427-96	c 33	N84-16456 *	US-PATENT-CLASS-428-312.6	c 27	N82-29456 *
US-PATENT-CLASS-427-384	c 24	N83-13171 *	US-PATENT-CLASS-428-109	c 27	N76-14264 *	US-PATENT-CLASS-428-312.6	c 44	N83-34448 *
US-PATENT-CLASS-427-384	c 24	N83-13172 *	US-PATENT-CLASS-428-109	c 33	N79-12331 *	US-PATENT-CLASS-428-312	c 27	N78-32260 *
US-PATENT-CLASS-427-385.5	c 27	N81-14078 *	US-PATENT-CLASS-428-113	c 24	N81-14000 *	US-PATENT-CLASS-428-313	c 24	N78-27180 *
US-PATENT-CLASS-427-385.5	c 27	N86-20561 *	US-PATENT-CLASS-428-114	c 24	N81-13999 *	US-PATENT-CLASS-428-317.9	c 27	N82-29456 *
US-PATENT-CLASS-427-385B	c 44	N78-25530 *	US-PATENT-CLASS-428-114	c 24	N81-14000 *	US-PATENT-CLASS-428-319.1	c 03	N84-33394 *
US-PATENT-CLASS-427-385C	c 44	N78-25530 *	US-PATENT-CLASS-428-116	c 24	N78-10214 *	US-PATENT-CLASS-428-325	c 27	N78-32260 *
US-PATENT-CLASS-427-386	c 24	N78-27180 *	US-PATENT-CLASS-428-116	c 24	N78-17149 *	US-PATENT-CLASS-428-325	c 27	N82-29456 *
US-PATENT-CLASS-427-387	c 74	N78-32854 *	US-PATENT-CLASS-428-116	c 24	N86-28131 *	US-PATENT-CLASS-428-325	c 44	N83-34448 *
US-PATENT-CLASS-427-387	c 24	N83-13171 *	US-PATENT-CLASS-428-117	c 37	N76-24575 *	US-PATENT-CLASS-428-325	c 24	N92-16026 *

US-PATENT-CLASS-428-328

REPORT NUMBER INDEX

US-PATENT-CLASS-428-328	c 24	N77-27188 *	US-PATENT-CLASS-428-447	c 74	N78-32854 *	US-PATENT-CLASS-428-639	c 26	N84-33555 *
US-PATENT-CLASS-428-328	c 54	N90-25498 *	US-PATENT-CLASS-428-447	c 27	N79-12221 *	US-PATENT-CLASS-428-63	c 24	N83-13172 *
US-PATENT-CLASS-428-331	c 27	N78-32260 *	US-PATENT-CLASS-428-447	c 27	N79-18052 *	US-PATENT-CLASS-428-641	c 26	N83-31795 *
US-PATENT-CLASS-428-331	c 27	N83-18908 *	US-PATENT-CLASS-428-447	c 24	N79-25142 *	US-PATENT-CLASS-428-641	c 76	N90-19884 *
US-PATENT-CLASS-428-332	c 27	N76-22377 *	US-PATENT-CLASS-428-447	c 27	N82-24339 *	US-PATENT-CLASS-428-650	c 44	N80-16452 *
US-PATENT-CLASS-428-332	c 27	N76-23426 *	US-PATENT-CLASS-428-447	c 27	N87-14516 *	US-PATENT-CLASS-428-650	c 26	N83-31795 *
US-PATENT-CLASS-428-332	c 24	N78-27180 *	US-PATENT-CLASS-428-447	c 27	N87-23736 *	US-PATENT-CLASS-428-651	c 26	N87-25455 *
US-PATENT-CLASS-428-332	c 27	N79-12221 *	US-PATENT-CLASS-428-447	c 54	N90-25498 *	US-PATENT-CLASS-428-652	c 34	N78-18355 *
US-PATENT-CLASS-428-332	c 24	N79-25142 *	US-PATENT-CLASS-428-448	c 27	N82-24339 *	US-PATENT-CLASS-428-652	c 44	N78-19599 *
US-PATENT-CLASS-428-332	c 27	N82-24340 *	US-PATENT-CLASS-428-448	c 24	N88-18628 *	US-PATENT-CLASS-428-656	c 24	N85-21266 *
US-PATENT-CLASS-428-332	c 74	N78-15879 *	US-PATENT-CLASS-428-448	c 27	N89-12741 *	US-PATENT-CLASS-428-656	c 24	N85-35233 *
US-PATENT-CLASS-428-333	c 74	N78-15879 *	US-PATENT-CLASS-428-450	c 27	N76-16229 *	US-PATENT-CLASS-428-656	c 44	N80-16452 *
US-PATENT-CLASS-428-336	c 27	N86-31727 *	US-PATENT-CLASS-428-450	c 27	N76-22377 *	US-PATENT-CLASS-428-660	c 26	N87-25455 *
US-PATENT-CLASS-428-339	c 27	N82-24340 *	US-PATENT-CLASS-428-450	c 27	N76-23426 *	US-PATENT-CLASS-428-666	c 24	N90-23480 *
US-PATENT-CLASS-428-341	c 27	N78-32260 *	US-PATENT-CLASS-428-450	c 27	N79-12221 *	US-PATENT-CLASS-428-667	c 34	N78-18355 *
US-PATENT-CLASS-428-347	c 27	N84-14323 *	US-PATENT-CLASS-428-450	c 26	N83-31795 *	US-PATENT-CLASS-428-667	c 44	N78-19599 *
US-PATENT-CLASS-428-35.9	c 24	N90-25196 *	US-PATENT-CLASS-428-450	c 76	N90-24168 *	US-PATENT-CLASS-428-675	c 44	N80-16452 *
US-PATENT-CLASS-428-35	c 34	N77-18382 *	US-PATENT-CLASS-428-451	c 27	N79-18052 *	US-PATENT-CLASS-428-678	c 26	N81-25188 *
US-PATENT-CLASS-428-366	c 24	N79-24062 *	US-PATENT-CLASS-428-457	c 27	N76-16229 *	US-PATENT-CLASS-428-678	c 27	N83-31855 *
US-PATENT-CLASS-428-367	c 27	N81-27272 *	US-PATENT-CLASS-428-457	c 24	N77-27188 *	US-PATENT-CLASS-428-678	c 26	N84-33555 *
US-PATENT-CLASS-428-367	c 24	N83-33950 *	US-PATENT-CLASS-428-457	c 24	N77-28225 *	US-PATENT-CLASS-428-678	c 24	N85-21266 *
US-PATENT-CLASS-428-367	c 27	N84-14322 *	US-PATENT-CLASS-428-457	c 26	N82-30371 *	US-PATENT-CLASS-428-678	c 24	N85-35233 *
US-PATENT-CLASS-428-367	c 27	N87-28656 *	US-PATENT-CLASS-428-457	c 76	N90-24168 *	US-PATENT-CLASS-428-679	c 44	N78-19599 *
US-PATENT-CLASS-428-367	c 27	N89-29538 *	US-PATENT-CLASS-428-458	c 24	N77-28225 *	US-PATENT-CLASS-428-679	c 26	N81-25188 *
US-PATENT-CLASS-428-367	c 24	N90-25196 *	US-PATENT-CLASS-428-458	c 24	N79-16915 *	US-PATENT-CLASS-428-679	c 24	N85-21266 *
US-PATENT-CLASS-428-368	c 24	N77-27188 *	US-PATENT-CLASS-428-458	c 27	N86-20561 *	US-PATENT-CLASS-428-679	c 24	N85-35233 *
US-PATENT-CLASS-428-368	c 27	N83-18908 *	US-PATENT-CLASS-428-458	c 54	N90-25498 *	US-PATENT-CLASS-428-680	c 44	N80-16452 *
US-PATENT-CLASS-428-370	c 27	N84-22745 *	US-PATENT-CLASS-428-458	c 27	N92-10091 *	US-PATENT-CLASS-428-680	c 26	N81-25188 *
US-PATENT-CLASS-428-375	c 24	N79-16915 *	US-PATENT-CLASS-428-461	c 34	N77-18382 *	US-PATENT-CLASS-428-680	c 26	N83-31795 *
US-PATENT-CLASS-428-375	c 24	N83-33950 *	US-PATENT-CLASS-428-462	c 27	N82-24340 *	US-PATENT-CLASS-428-680	c 24	N85-21266 *
US-PATENT-CLASS-428-375	c 27	N89-29538 *	US-PATENT-CLASS-428-466	c 27	N82-24340 *	US-PATENT-CLASS-428-680	c 24	N85-35233 *
US-PATENT-CLASS-428-376	c 24	N90-25196 *	US-PATENT-CLASS-428-469	c 27	N76-16229 *	US-PATENT-CLASS-428-680	c 24	N90-23480 *
US-PATENT-CLASS-428-379	c 24	N90-25196 *	US-PATENT-CLASS-428-469	c 26	N83-31795 *	US-PATENT-CLASS-428-681	c 24	N85-21266 *
US-PATENT-CLASS-428-390	c 27	N89-29538 *	US-PATENT-CLASS-428-469	c 24	N92-21725 *	US-PATENT-CLASS-428-681	c 24	N85-35233 *
US-PATENT-CLASS-428-392	c 24	N83-33950 *	US-PATENT-CLASS-428-471	c 26	N81-25188 *	US-PATENT-CLASS-428-682	c 24	N85-21266 *
US-PATENT-CLASS-428-406	c 27	N78-32260 *	US-PATENT-CLASS-428-472.2	c 24	N92-21725 *	US-PATENT-CLASS-428-682	c 24	N85-35233 *
US-PATENT-CLASS-428-408	c 27	N81-27272 *	US-PATENT-CLASS-428-472	c 26	N82-30371 *	US-PATENT-CLASS-428-683	c 24	N85-21266 *
US-PATENT-CLASS-428-408	c 27	N84-14322 *	US-PATENT-CLASS-428-473.5	c 27	N81-14078 *	US-PATENT-CLASS-428-684	c 24	N85-21266 *
US-PATENT-CLASS-428-408	c 27	N84-22745 *	US-PATENT-CLASS-428-473.5	c 27	N81-29229 *	US-PATENT-CLASS-428-690	c 76	N81-21911 *
US-PATENT-CLASS-428-408	c 27	N85-34281 *	US-PATENT-CLASS-428-473.5	c 27	N84-14322 *	US-PATENT-CLASS-428-698	c 76	N85-33826 *
US-PATENT-CLASS-428-408	c 27	N86-28131 *	US-PATENT-CLASS-428-473.5	c 27	N86-19458 *	US-PATENT-CLASS-428-698	c 26	N85-35267 *
US-PATENT-CLASS-428-408	c 24	N89-29538 *	US-PATENT-CLASS-428-473.5	c 27	N86-20561 *	US-PATENT-CLASS-428-698	c 27	N89-29538 *
US-PATENT-CLASS-428-408	c 52	N90-20616 *	US-PATENT-CLASS-428-473.5	c 24	N86-25416 *	US-PATENT-CLASS-428-702	c 27	N86-19458 *
US-PATENT-CLASS-428-40	c 27	N84-14323 *	US-PATENT-CLASS-428-473.5	c 27	N86-31726 *	US-PATENT-CLASS-428-702	c 27	N87-23736 *
US-PATENT-CLASS-428-410	c 23	N86-19376 *	US-PATENT-CLASS-428-473.5	c 27	N86-31727 *	US-PATENT-CLASS-428-704	c 26	N85-35267 *
US-PATENT-CLASS-428-411	c 27	N78-14164 *	US-PATENT-CLASS-428-473.5	c 27	N87-16909 *	US-PATENT-CLASS-428-704	c 27	N87-16909 *
US-PATENT-CLASS-428-411	c 27	N78-31233 *	US-PATENT-CLASS-428-473.5	c 27	N87-23736 *	US-PATENT-CLASS-428-71	c 24	N78-15180 *
US-PATENT-CLASS-428-411	c 27	N79-14214 *	US-PATENT-CLASS-428-474	c 34	N77-18382 *	US-PATENT-CLASS-428-71	c 03	N84-33394 *
US-PATENT-CLASS-428-412	c 27	N76-16230 *	US-PATENT-CLASS-428-474.4	c 24	N86-25416 *	US-PATENT-CLASS-428-71	c 27	N89-12741 *
US-PATENT-CLASS-428-412	c 27	N78-31233 *	US-PATENT-CLASS-428-474.4	c 54	N90-25498 *	US-PATENT-CLASS-428-73	c 24	N78-10214 *
US-PATENT-CLASS-428-412	c 74	N78-32854 *	US-PATENT-CLASS-428-474	c 27	N79-33316 *	US-PATENT-CLASS-428-73	c 24	N78-15180 *
US-PATENT-CLASS-428-412	c 27	N79-18052 *	US-PATENT-CLASS-428-474	c 27	N80-24437 *	US-PATENT-CLASS-428-73	c 24	N79-16915 *
US-PATENT-CLASS-428-412	c 27	N92-10091 *	US-PATENT-CLASS-428-477.7	c 27	N86-25416 *	US-PATENT-CLASS-428-74	c 24	N88-18628 *
US-PATENT-CLASS-428-413	c 27	N76-16230 *	US-PATENT-CLASS-428-477	c 24	N89-12741 *	US-PATENT-CLASS-428-76	c 03	N84-33394 *
US-PATENT-CLASS-428-413	c 15	N79-26100 *	US-PATENT-CLASS-428-480	c 24	N81-14000 *	US-PATENT-CLASS-428-76	c 24	N88-18628 *
US-PATENT-CLASS-428-413	c 24	N81-14000 *	US-PATENT-CLASS-428-483	c 27	N82-24340 *	US-PATENT-CLASS-428-76	c 27	N89-12741 *
US-PATENT-CLASS-428-413	c 27	N85-34281 *	US-PATENT-CLASS-428-49	c 27	N82-24339 *	US-PATENT-CLASS-428-77	c 27	N76-14264 *
US-PATENT-CLASS-428-413	c 27	N87-25469 *	US-PATENT-CLASS-428-49	c 27	N82-29456 *	US-PATENT-CLASS-428-77	c 27	N79-12221 *
US-PATENT-CLASS-428-414	c 15	N79-26100 *	US-PATENT-CLASS-428-500	c 27	N80-32516 *	US-PATENT-CLASS-428-78	c 27	N84-14323 *
US-PATENT-CLASS-428-416	c 27	N76-14264 *	US-PATENT-CLASS-428-500	c 27	N87-16909 *	US-PATENT-CLASS-428-901	c 76	N90-24168 *
US-PATENT-CLASS-428-417	c 27	N87-25469 *	US-PATENT-CLASS-428-515	c 27	N78-31233 *	US-PATENT-CLASS-428-902	c 24	N77-27188 *
US-PATENT-CLASS-428-418	c 24	N77-27188 *	US-PATENT-CLASS-428-522	c 27	N78-14164 *	US-PATENT-CLASS-428-902	c 24	N78-10214 *
US-PATENT-CLASS-428-418	c 15	N79-26100 *	US-PATENT-CLASS-428-523	c 27	N78-31233 *	US-PATENT-CLASS-428-902	c 24	N78-17149 *
US-PATENT-CLASS-428-419	c 27	N92-10091 *	US-PATENT-CLASS-428-528	c 24	N81-13999 *	US-PATENT-CLASS-428-902	c 24	N81-14000 *
US-PATENT-CLASS-428-421	c 34	N77-18382 *	US-PATENT-CLASS-428-538	c 27	N76-22377 *	US-PATENT-CLASS-428-902	c 31	N81-25258 *
US-PATENT-CLASS-428-421	c 15	N79-26100 *	US-PATENT-CLASS-428-538	c 27	N76-23426 *	US-PATENT-CLASS-428-902	c 27	N81-27272 *
US-PATENT-CLASS-428-421	c 27	N80-24437 *	US-PATENT-CLASS-428-538	c 27	N78-31233 *	US-PATENT-CLASS-428-902	c 27	N83-18908 *
US-PATENT-CLASS-428-421	c 76	N83-34796 *	US-PATENT-CLASS-428-539	c 27	N76-16229 *	US-PATENT-CLASS-428-902	c 24	N83-33950 *
US-PATENT-CLASS-428-421	c 27	N87-16909 *	US-PATENT-CLASS-428-541	c 24	N81-13999 *	US-PATENT-CLASS-428-902	c 27	N84-14322 *
US-PATENT-CLASS-428-421	c 27	N87-23736 *	US-PATENT-CLASS-428-551	c 24	N90-23493 *	US-PATENT-CLASS-428-902	c 27	N84-22745 *
US-PATENT-CLASS-428-422	c 27	N78-31233 *	US-PATENT-CLASS-428-552	c 24	N90-23493 *	US-PATENT-CLASS-428-903	c 24	N83-33950 *
US-PATENT-CLASS-428-422	c 76	N83-34796 *	US-PATENT-CLASS-428-564	c 26	N84-33555 *	US-PATENT-CLASS-428-911	c 27	N76-16230 *
US-PATENT-CLASS-428-422	c 27	N87-23736 *	US-PATENT-CLASS-428-58	c 27	N89-12741 *	US-PATENT-CLASS-428-911	c 24	N77-27188 *
US-PATENT-CLASS-428-422	c 54	N90-25498 *	US-PATENT-CLASS-428-593	c 24	N82-24296 *	US-PATENT-CLASS-428-913	c 34	N78-25350 *
US-PATENT-CLASS-428-423.5	c 03	N84-33394 *	US-PATENT-CLASS-428-593	c 24	N84-11214 *	US-PATENT-CLASS-428-913	c 27	N83-18908 *
US-PATENT-CLASS-428-425	c 24	N77-28225 *	US-PATENT-CLASS-428-594	c 24	N82-24296 *	US-PATENT-CLASS-428-913	c 76	N85-33826 *
US-PATENT-CLASS-428-426	c 74	N78-15879 *	US-PATENT-CLASS-428-594	c 24	N82-32417 *	US-PATENT-CLASS-428-920	c 27	N76-16230 *
US-PATENT-CLASS-428-426	c 24	N92-21725 *	US-PATENT-CLASS-428-595	c 18	N84-33450 *	US-PATENT-CLASS-428-920	c 27	N76-22377 *
US-PATENT-CLASS-428-427	c 27	N78-32260 *	US-PATENT-CLASS-428-604	c 24	N82-24296 *	US-PATENT-CLASS-428-920	c 27	N76-23426 *
US-PATENT-CLASS-428-427	c 44	N83-34448 *	US-PATENT-CLASS-428-604	c 24	N82-32417 *	US-PATENT-CLASS-428-920	c 24	N78-15180 *
US-PATENT-CLASS-428-428	c 27	N76-22377 *	US-PATENT-CLASS-428-607	c 24	N82-32417 *	US-PATENT-CLASS-428-920	c 27	N78-32260 *
US-PATENT-CLASS-428-428	c 27	N76-23426 *	US-PATENT-CLASS-428-607	c 26	N87-25455 *	US-PATENT-CLASS-428-920	c 27	N79-12221 *
US-PATENT-CLASS-428-428	c 74	N78-15879 *	US-PATENT-CLASS-428-607	c 24	N90-23480 *	US-PATENT-CLASS-428-920	c 24	N79-25142 *
US-PATENT-CLASS-428-428	c 27	N78-32260 *	US-PATENT-CLASS-428-608	c 24	N82-32417 *	US-PATENT-CLASS-428-920	c 15	N79-26100 *
US-PATENT-CLASS-428-428	c 44	N83-34448 *	US-PATENT-CLASS-428-623	c 27	N83-31855 *	US-PATENT-CLASS-428-920	c 27	N81-27272 *
US-PATENT-CLASS-428-432	c 27	N84-33589 *	US-PATENT-CLASS-428-623	c 24	N90-23480 *	US-PATENT-CLASS-428-920	c 27	N83-18908 *
US-PATENT-CLASS-428-432	c 76	N85-33826 *	US-PATENT-CLASS-428-627	c 24	N90-23480 *	US-PATENT-CLASS-428-920	c 27	N84-14322 *
US-PATENT-CLASS-428-432	c 24	N92-21725 *	US-PATENT-CLASS-428-629	c 44	N80-16452 *	US-PATENT-CLASS-428-920	c 27	N84-22745 *
US-PATENT-CLASS-428-433	c 24	N92-21725 *	US-PATENT-CLASS-428-632	c 26	N81-25188 *	US-PATENT-CLASS-428-920	c 24	N88-18628 *
US-PATENT-CLASS-428-446	c 27	N78-32260 *	US-PATENT-CLASS-428-632	c 26	N84-27855 *	US-PATENT-CLASS-428-920	c 24	N92-16026 *
US-PATENT-CLASS-428-446	c 27	N82-29456 *	US-PATENT-CLASS-428-632	c 26	N87-25455 *	US-PATENT-CLASS-428-921	c 27	N76-16230 *
US-PATENT-CLASS-428-446	c 27	N86-19458 *	US-PATENT-CLASS-428-632	c 24	N90-23480 *	US-PATENT-CLASS-428-921	c 24	N78-27180 *
US-PATENT-CLASS-428-446	c 24	N92-16026 *	US-PATENT-CLASS-428-633	c 34	N78-18355 *	US-PATENT-CLASS-428-921	c 24	N81-13999 *
US-PATENT-CLASS-428-447	c 27	N76-14264 *	US-PATENT-CLASS-428-633	c 27	N83-31855 *	US-PATENT-CLASS-428-921	c 03	N84-33394 *
US-PATENT-CLASS-428-447	c 27	N76-16230 *	US-PATENT-CLASS-428-633	c 24	N85-21266 *	US-PATENT-CLASS-428-921	c 24	N86-28131 *
US-PATENT-CLASS-428-447	c 27	N78-31233 *	US-PATENT-CLASS-428-633	c 24	N85-35233 *	US-PATENT-CLASS-428-922	c 27	N78-14164 *

REPORT NUMBER INDEX

US-PATENT-CLASS-48-102A

US-PATENT-CLASS-428-938	c 27	N82-28441 *	US-PATENT-CLASS-431-208	c 25	N79-11151 *	US-PATENT-CLASS-437-133	c 76	N92-22035 *
US-PATENT-CLASS-428-93	c 34	N78-25350	US-PATENT-CLASS-431-210	c 44	N76-29704 *	US-PATENT-CLASS-437-187	c 76	N91-28014 *
US-PATENT-CLASS-428-941	c 27	N82-28441 *	US-PATENT-CLASS-431-2	c 07	N81-29129 *	US-PATENT-CLASS-437-197	c 76	N91-28014 *
US-PATENT-CLASS-428-94	c 34	N78-25350	US-PATENT-CLASS-431-328	c 34	N78-27357 *	US-PATENT-CLASS-437-199	c 76	N91-28014 *
US-PATENT-CLASS-428-95	c 34	N78-25350	US-PATENT-CLASS-431-352	c 28	N71-28915 *	US-PATENT-CLASS-437-200	c 24	N92-18561 *
US-PATENT-CLASS-428-96	c 34	N78-25350	US-PATENT-CLASS-431-352	c 25	N78-10224 *	US-PATENT-CLASS-437-225	c 72	N91-14813 *
US-PATENT-CLASS-428-97	c 34	N78-25350	US-PATENT-CLASS-431-352	c 25	N90-11824 *	US-PATENT-CLASS-437-228	c 72	N91-14813 *
US-PATENT-CLASS-429-101	c 44	N79-17313	US-PATENT-CLASS-431-41	c 44	N77-10636 *	US-PATENT-CLASS-437-229	c 25	N91-31258 *
US-PATENT-CLASS-429-101	c 44	N79-26474 *	US-PATENT-CLASS-431-4	c 44	N76-29704 *	US-PATENT-CLASS-437-235	c 72	N91-14813 *
US-PATENT-CLASS-429-101	c 33	N80-20487 *	US-PATENT-CLASS-431-76	c 25	N88-29002 *	US-PATENT-CLASS-437-238	c 72	N91-14813 *
US-PATENT-CLASS-429-103	c 33	N91-14538	US-PATENT-CLASS-431-7	c 34	N78-27357 *	US-PATENT-CLASS-437-239	c 72	N91-14813 *
US-PATENT-CLASS-429-104	c 33	N91-14536	US-PATENT-CLASS-431-9	c 23	N73-30665 *	US-PATENT-CLASS-437-247	c 76	N91-28014 *
US-PATENT-CLASS-429-105	c 44	N77-22606	US-PATENT-CLASS-432-18	c 35	N86-20750 *	US-PATENT-CLASS-437-248	c 76	N91-28014 *
US-PATENT-CLASS-429-105	c 33	N80-20487	US-PATENT-CLASS-432-223	c 25	N79-11151 *	US-PATENT-CLASS-437-2	c 44	N91-27614 *
US-PATENT-CLASS-429-105	c 44	N83-27344 *	US-PATENT-CLASS-432-227	c 35	N83-24828 *	US-PATENT-CLASS-437-3	c 76	N88-14836 *
US-PATENT-CLASS-429-107	c 44	N77-22606	US-PATENT-CLASS-432-264	c 33	N81-19389 *	US-PATENT-CLASS-437-40	c 24	N92-18561 *
US-PATENT-CLASS-429-107	c 33	N80-20487 *	US-PATENT-CLASS-432-29	c 25	N79-11151 *	US-PATENT-CLASS-437-7	c 76	N88-14836 *
US-PATENT-CLASS-429-107	c 44	N83-27344 *	US-PATENT-CLASS-432-58	c 35	N83-24828 *	US-PATENT-CLASS-437-85	c 76	N92-22035 *
US-PATENT-CLASS-429-109	c 33	N80-20487	US-PATENT-CLASS-433-118	c 52	N82-29862 *	US-PATENT-CLASS-437-8	c 76	N88-14836 *
US-PATENT-CLASS-429-109	c 44	N83-27344 *	US-PATENT-CLASS-433-125	c 52	N82-29862 *	US-PATENT-CLASS-437-903	c 76	N90-19884 *
US-PATENT-CLASS-429-109	c 44	N86-19721 *	US-PATENT-CLASS-433-86	c 52	N82-29862 *	US-PATENT-CLASS-437-907	c 24	N92-18561 *
US-PATENT-CLASS-429-111	c 25	N84-12262 *	US-PATENT-CLASS-434-114	c 82	N87-29372 *	US-PATENT-CLASS-437-930	c 72	N91-14813 *
US-PATENT-CLASS-429-111	c 44	N84-23019 *	US-PATENT-CLASS-434-242	c 09	N85-19990 *	US-PATENT-CLASS-437-935	c 24	N92-18561 *
US-PATENT-CLASS-429-11	c 44	N92-16457 *	US-PATENT-CLASS-434-243	c 09	N85-19990 *	US-PATENT-CLASS-437-936	c 72	N91-14813 *
US-PATENT-CLASS-429-120	c 44	N81-24521	US-PATENT-CLASS-434-2	c 32	N84-27952 *	US-PATENT-CLASS-437-936	c 76	N92-22035 *
US-PATENT-CLASS-429-120	c 33	N91-14538	US-PATENT-CLASS-434-34	c 14	N87-25344 *	US-PATENT-CLASS-437-942	c 24	N92-18561 *
US-PATENT-CLASS-429-120	c 44	N92-16457 *	US-PATENT-CLASS-434-35	c 09	N85-19990 *	US-PATENT-CLASS-437-945	c 76	N92-22035 *
US-PATENT-CLASS-429-139	c 27	N80-32516	US-PATENT-CLASS-434-38	c 36	N83-34304 *	US-PATENT-CLASS-437-969	c 76	N88-14836 *
US-PATENT-CLASS-429-139	c 27	N81-24257 *	US-PATENT-CLASS-434-403	c 31	N83-34073 *	US-PATENT-CLASS-437-973	c 24	N92-18561 *
US-PATENT-CLASS-429-13	c 44	N79-10513	US-PATENT-CLASS-434-42	c 09	N82-24212	US-PATENT-CLASS-439-271	c 33	N88-14270 *
US-PATENT-CLASS-429-144	c 44	N82-29708	US-PATENT-CLASS-434-43	c 09	N82-24212	US-PATENT-CLASS-439-578	c 33	N88-14270 *
US-PATENT-CLASS-429-144	c 44	N83-32176 *	US-PATENT-CLASS-434-49	c 09	N85-19990 *	US-PATENT-CLASS-44-1-SR	c 25	N85-35253 *
US-PATENT-CLASS-429-15	c 44	N79-26474 *	US-PATENT-CLASS-434-4	c 36	N83-34304 *	US-PATENT-CLASS-44-1R	c 44	N78-31527 *
US-PATENT-CLASS-429-15	c 44	N86-19721 *	US-PATENT-CLASS-434-4	c 35	N86-32697 *	US-PATENT-CLASS-44-1R	c 25	N81-33246 *
US-PATENT-CLASS-429-160	c 44	N81-24521	US-PATENT-CLASS-434-59	c 54	N81-27806 *	US-PATENT-CLASS-44-1SR	c 25	N82-29371 *
US-PATENT-CLASS-429-164	c 44	N81-24521	US-PATENT-CLASS-434-88	c 31	N83-34073 *	US-PATENT-CLASS-44-1SR	c 25	N83-31743 *
US-PATENT-CLASS-429-190	c 44	N77-22606	US-PATENT-CLASS-435-160	c 23	N85-35227 *	US-PATENT-CLASS-44-2	c 44	N78-31527 *
US-PATENT-CLASS-429-193	c 44	N82-29710 *	US-PATENT-CLASS-435-284	c 51	N91-21700 *	US-PATENT-CLASS-44-2	c 25	N81-33246 *
US-PATENT-CLASS-429-19	c 44	N86-19721 *	US-PATENT-CLASS-435-285	c 51	N91-21700 *	US-PATENT-CLASS-44-50	c 27	N81-17261 *
US-PATENT-CLASS-429-206	c 25	N83-13188 *	US-PATENT-CLASS-435-285	c 51	N91-30667 *	US-PATENT-CLASS-44-51	c 25	N79-11152 *
US-PATENT-CLASS-429-206	c 33	N84-14422 *	US-PATENT-CLASS-435-286	c 51	N91-21700 *	US-PATENT-CLASS-44-62	c 27	N81-17261 *
US-PATENT-CLASS-429-206	c 33	N85-29144 *	US-PATENT-CLASS-435-286	c 51	N91-21701 *	US-PATENT-CLASS-44-7R	c 28	N81-14103 *
US-PATENT-CLASS-429-213	c 33	N91-14536	US-PATENT-CLASS-435-286	c 51	N91-30667 *	US-PATENT-CLASS-44-77	c 06	N71-23499 *
US-PATENT-CLASS-429-213	c 26	N84-22734 *	US-PATENT-CLASS-435-289	c 51	N80-27067 *	US-PATENT-CLASS-441-83	c 03	N91-31113 *
US-PATENT-CLASS-429-223	c 33	N91-27478 *	US-PATENT-CLASS-435-289	c 51	N83-27569 *	US-PATENT-CLASS-445-35	c 37	N85-33489 *
US-PATENT-CLASS-429-223	c 33	N84-14422 *	US-PATENT-CLASS-435-289	c 51	N91-21701 *	US-PATENT-CLASS-455-102	c 33	N81-15192 *
US-PATENT-CLASS-429-234	c 26	N84-22734 *	US-PATENT-CLASS-435-290	c 51	N80-27067 *	US-PATENT-CLASS-455-102	c 33	N91-31530 *
US-PATENT-CLASS-429-23	c 44	N77-14581	US-PATENT-CLASS-435-291	c 51	N80-27067 *	US-PATENT-CLASS-455-115	c 32	N89-14374 *
US-PATENT-CLASS-429-249	c 27	N81-24257 *	US-PATENT-CLASS-435-291	c 51	N81-28698 *	US-PATENT-CLASS-455-117	c 32	N89-14374 *
US-PATENT-CLASS-429-249	c 23	N81-29160	US-PATENT-CLASS-435-291	c 35	N82-28604 *	US-PATENT-CLASS-455-137	c 35	N82-15381 *
US-PATENT-CLASS-429-249	c 33	N85-29144 *	US-PATENT-CLASS-435-291	c 51	N83-27569 *	US-PATENT-CLASS-455-139	c 35	N82-15381 *
US-PATENT-CLASS-429-251	c 44	N82-29708	US-PATENT-CLASS-435-292	c 51	N91-21700 *	US-PATENT-CLASS-455-1	c 33	N91-31530 *
US-PATENT-CLASS-429-251	c 44	N83-32176 *	US-PATENT-CLASS-435-30	c 51	N91-31755 *	US-PATENT-CLASS-455-202	c 33	N82-29539 *
US-PATENT-CLASS-429-253	c 44	N79-25481 *	US-PATENT-CLASS-435-311	c 51	N80-27067 *	US-PATENT-CLASS-455-202	c 32	N84-27952 *
US-PATENT-CLASS-429-253	c 27	N81-24257 *	US-PATENT-CLASS-435-311	c 51	N91-14703 *	US-PATENT-CLASS-455-208	c 33	N82-29539 *
US-PATENT-CLASS-429-253	c 23	N81-29160	US-PATENT-CLASS-435-311	c 51	N91-21700 *	US-PATENT-CLASS-455-208	c 32	N84-27952 *
US-PATENT-CLASS-429-253	c 25	N83-13188 *	US-PATENT-CLASS-435-311	c 51	N91-21701 *	US-PATENT-CLASS-455-234	c 33	N82-29539 *
US-PATENT-CLASS-429-254	c 44	N78-25530	US-PATENT-CLASS-435-312	c 51	N81-21700 *	US-PATENT-CLASS-455-260	c 32	N84-27952 *
US-PATENT-CLASS-429-254	c 44	N82-29708	US-PATENT-CLASS-435-312	c 51	N91-30667 *	US-PATENT-CLASS-455-265	c 32	N84-27952 *
US-PATENT-CLASS-429-254	c 44	N83-32176 *	US-PATENT-CLASS-435-313	c 51	N91-30667 *	US-PATENT-CLASS-455-278	c 32	N81-29308 *
US-PATENT-CLASS-429-27	c 27	N81-24257 *	US-PATENT-CLASS-435-315	c 51	N91-21701 *	US-PATENT-CLASS-455-306	c 33	N82-29539 *
US-PATENT-CLASS-429-27	c 23	N81-29160	US-PATENT-CLASS-435-316	c 51	N80-27067 *	US-PATENT-CLASS-455-51	c 32	N81-14186 *
US-PATENT-CLASS-429-27	c 44	N86-25874 *	US-PATENT-CLASS-435-316	c 51	N91-14703 *	US-PATENT-CLASS-455-605	c 74	N91-27957 *
US-PATENT-CLASS-429-28	c 27	N81-24257 *	US-PATENT-CLASS-435-316	c 51	N91-21700 *	US-PATENT-CLASS-455-608	c 32	N87-21207 *
US-PATENT-CLASS-429-28	c 23	N81-29160	US-PATENT-CLASS-435-316	c 51	N91-21701 *	US-PATENT-CLASS-455-60	c 35	N82-15381 *
US-PATENT-CLASS-429-33	c 44	N79-17313	US-PATENT-CLASS-435-32	c 51	N80-27067 *	US-PATENT-CLASS-455-610	c 74	N82-19029 *
US-PATENT-CLASS-429-33	c 44	N82-29710 *	US-PATENT-CLASS-435-34	c 51	N80-16714 *	US-PATENT-CLASS-455-612	c 74	N82-19029 *
US-PATENT-CLASS-429-34	c 44	N77-14581 *	US-PATENT-CLASS-435-34	c 51	N80-27067 *	US-PATENT-CLASS-455-612	c 74	N83-29032 *
US-PATENT-CLASS-429-34	c 44	N83-27344 *	US-PATENT-CLASS-435-34	c 51	N81-28698 *	US-PATENT-CLASS-455-615	c 74	N82-19029 *
US-PATENT-CLASS-429-40	c 44	N82-29710 *	US-PATENT-CLASS-435-34	c 35	N82-28604 *	US-PATENT-CLASS-455-617	c 74	N82-19029 *
US-PATENT-CLASS-429-40	c 44	N83-27344 *	US-PATENT-CLASS-435-34	c 51	N83-27569 *	US-PATENT-CLASS-455-619	c 32	N81-14186 *
US-PATENT-CLASS-429-41	c 44	N79-10513	US-PATENT-CLASS-435-34	c 51	N83-28849 *	US-PATENT-CLASS-455-65	c 32	N87-25511 *
US-PATENT-CLASS-429-42	c 44	N79-10513	US-PATENT-CLASS-435-38	c 51	N80-27067 *	US-PATENT-CLASS-455-67	c 32	N89-14374 *
US-PATENT-CLASS-429-44	c 44	N84-28205 *	US-PATENT-CLASS-435-38	c 51	N83-27569 *	US-PATENT-CLASS-455-73	c 32	N81-14186 *
US-PATENT-CLASS-429-51	c 44	N86-19721 *	US-PATENT-CLASS-435-38	c 51	N83-28849 *	US-PATENT-CLASS-455-73	c 32	N85-29118 *
US-PATENT-CLASS-429-57	c 44	N86-25874 *	US-PATENT-CLASS-435-39	c 51	N80-27067 *	US-PATENT-CLASS-455-98	c 32	N89-14374 *
US-PATENT-CLASS-429-58	c 35	N85-21596	US-PATENT-CLASS-435-39	c 35	N82-28604 *	US-PATENT-CLASS-455-99	c 33	N91-31530 *
US-PATENT-CLASS-429-94	c 44	N81-24521	US-PATENT-CLASS-435-39	c 51	N83-27569 *	US-PATENT-CLASS-464-132	c 37	N91-17387 *
US-PATENT-CLASS-430-17	c 35	N82-11432 *	US-PATENT-CLASS-435-39	c 51	N83-28849 *	US-PATENT-CLASS-464-56	c 37	N91-17387 *
US-PATENT-CLASS-430-271	c 27	N81-25209 *	US-PATENT-CLASS-435-3	c 51	N80-27067 *	US-PATENT-CLASS-464-56	c 37	N91-17388 *
US-PATENT-CLASS-430-325	c 27	N81-25209 *	US-PATENT-CLASS-435-3	c 51	N83-27569 *	US-PATENT-CLASS-467-28	c 39	N80-10507 *
US-PATENT-CLASS-430-329	c 27	N81-25209 *	US-PATENT-CLASS-435-3	c 51	N83-28849 *	US-PATENT-CLASS-47-1.2	c 51	N75-25503 *
US-PATENT-CLASS-430-330	c 27	N81-25209 *	US-PATENT-CLASS-435-5	c 51	N81-28698 *	US-PATENT-CLASS-47-1.4	c 31	N73-32750 *
US-PATENT-CLASS-430-372	c 35	N82-11432 *	US-PATENT-CLASS-435-807	c 51	N83-28849 *	US-PATENT-CLASS-47-1.4	c 54	N91-31803 *
US-PATENT-CLASS-431-10	c 34	N78-27357 *	US-PATENT-CLASS-435-818	c 51	N91-30667 *	US-PATENT-CLASS-47-17	c 31	N73-32750 *
US-PATENT-CLASS-431-10	c 25	N79-11151 *	US-PATENT-CLASS-435-842	c 23	N85-35227 *	US-PATENT-CLASS-47-26	c 37	N83-26078 *
US-PATENT-CLASS-431-116	c 44	N77-10636 *	US-PATENT-CLASS-435-8	c 51	N83-27569 *	US-PATENT-CLASS-47-39	c 51	N75-25503 *
US-PATENT-CLASS-431-11	c 44	N77-10636 *	US-PATENT-CLASS-436-137	c 35	N90-22025 *	US-PATENT-CLASS-47-58	c 51	N75-25503 *
US-PATENT-CLASS-431-13	c 25	N88-29002 *	US-PATENT-CLASS-436-143	c 35	N90-22025 *	US-PATENT-CLASS-47-58	c 51	N83-17045 *
US-PATENT-CLASS-431-158	c 25	N78-10224 *	US-PATENT-CLASS-436-155	c 25	N86-19413 *	US-PATENT-CLASS-47-58	c 45	N84-12654 *
US-PATENT-CLASS-431-162	c 44	N77-10636 *	US-PATENT-CLASS-436-2	c 35	N85-29213 *	US-PATENT-CLASS-47-62	c 54	N91-31803 *
US-PATENT-CLASS-431-163	c 44	N76-29704 *	US-PATENT-CLASS-436-55	c 35	N90-22025 *	US-PATENT-CLASS-474-205	c 37	N80-32717 *
US-PATENT-CLASS-431-170	c 44	N77-10636 *	US-PATENT-CLASS-437-105	c 76	N92-22035 *	US-PATENT-CLASS-474-220	c 37	N87-17034 *
US-PATENT-CLASS-431-173	c 23	N73-30665 *	US-PATENT-CLASS-437-107	c 76	N92-22035 *	US-PATENT-CLASS-48-DIG.8	c 28	N80-10374 *
US-PATENT-CLASS-431-1	c 25	N84-16276 *	US-PATENT-CLASS-437-128	c 76	N88-14836 *	US-PATENT-CLASS-48-10-3	c 28	N80-10374 *
US-PATENT-CLASS-431-202	c 25	N74-33378 *	US-PATENT-CLASS-437-131	c 76	N88-14836 *	US-PATENT-CLASS-48-102A	c 28	N80-10374 *

US-PATENT-CLASS-48-107

REPORT NUMBER INDEX

US-PATENT-CLASS-48-107	c 28	N80-10374 *	US-PATENT-CLASS-52-117	c 44	N77-32582 *	US-PATENT-CLASS-521-32	c 27	N81-14076 *
US-PATENT-CLASS-48-116	c 44	N76-18642 *	US-PATENT-CLASS-52-126.5	c 31	N87-16918 *	US-PATENT-CLASS-521-54	c 27	N92-16123 *
US-PATENT-CLASS-48-116	c 44	N77-10636 *	US-PATENT-CLASS-52-127.7	c 37	N85-30335 *	US-PATENT-CLASS-521-55	c 25	N80-23383 *
US-PATENT-CLASS-48-117	c 44	N76-18642 *	US-PATENT-CLASS-52-127	c 15	N71-21531 *	US-PATENT-CLASS-521-62	c 27	N81-14076 *
US-PATENT-CLASS-48-117	c 44	N77-10636 *	US-PATENT-CLASS-52-144	c 71	N91-27913 *	US-PATENT-CLASS-521-82	c 27	N90-16949 *
US-PATENT-CLASS-48-117	c 28	N80-10374 *	US-PATENT-CLASS-52-169	c 15	N72-25454 *	US-PATENT-CLASS-521-84.1	c 27	N92-16123 *
US-PATENT-CLASS-48-197-R	c 25	N86-25428 *	US-PATENT-CLASS-52-171	c 11	N73-12265 *	US-PATENT-CLASS-521-907	c 27	N92-16123 *
US-PATENT-CLASS-48-197R	c 44	N76-29704 *	US-PATENT-CLASS-52-171	c 74	N85-29750 *	US-PATENT-CLASS-521-918	c 25	N80-23383 *
US-PATENT-CLASS-48-197R	c 44	N77-10636 *	US-PATENT-CLASS-52-173R	c 44	N77-31601 *	US-PATENT-CLASS-521-97	c 27	N90-16949 *
US-PATENT-CLASS-48-197R	c 28	N91-14495 *	US-PATENT-CLASS-52-173	c 15	N72-25454 *	US-PATENT-CLASS-521-98	c 27	N90-16949 *
US-PATENT-CLASS-48-203	c 28	N91-14495 *	US-PATENT-CLASS-52-1	c 15	N72-28496 *	US-PATENT-CLASS-522-162	c 27	N90-21198 *
US-PATENT-CLASS-48-212	c 44	N77-10636 *	US-PATENT-CLASS-52-232	c 37	N81-14317 *	US-PATENT-CLASS-522-165	c 27	N90-21198 *
US-PATENT-CLASS-48-215	c 44	N76-29700 *	US-PATENT-CLASS-52-236	c 39	N76-31562 *	US-PATENT-CLASS-523-135	c 27	N85-29044 *
US-PATENT-CLASS-48-61	c 44	N77-10636 *	US-PATENT-CLASS-52-249	c 33	N71-25351 *	US-PATENT-CLASS-523-205	c 27	N83-19900 *
US-PATENT-CLASS-48-61	c 28	N80-10374 *	US-PATENT-CLASS-52-272	c 31	N71-24035 *	US-PATENT-CLASS-523-403	c 24	N86-19380 *
US-PATENT-CLASS-48-63	c 44	N76-18642 *	US-PATENT-CLASS-52-284	c 32	N73-13921 *	US-PATENT-CLASS-523-434	c 27	N86-27451 *
US-PATENT-CLASS-48-75	c 44	N76-18642 *	US-PATENT-CLASS-52-2	c 32	N71-21045 *	US-PATENT-CLASS-523-435	c 24	N84-11213 *
US-PATENT-CLASS-48-77	c 28	N91-14495 *	US-PATENT-CLASS-52-2	c 44	N77-32583 *	US-PATENT-CLASS-523-440	c 27	N83-34043 *
US-PATENT-CLASS-48-89	c 44	N82-16475 *	US-PATENT-CLASS-52-309.15	c 31	N87-16918 *	US-PATENT-CLASS-523-443	c 27	N83-34043 *
US-PATENT-CLASS-48-89	c 44	N76-18642 *	US-PATENT-CLASS-52-309.1	c 31	N81-25258 *	US-PATENT-CLASS-523-445	c 24	N86-19380 *
US-PATENT-CLASS-48-95	c 44	N76-18642 *	US-PATENT-CLASS-52-391	c 31	N87-16918 *	US-PATENT-CLASS-523-445	c 27	N86-27451 *
US-PATENT-CLASS-48-95	c 44	N76-29700 *	US-PATENT-CLASS-52-3	c 31	N71-16080 *	US-PATENT-CLASS-523-454	c 24	N84-34571 *
US-PATENT-CLASS-48-99	c 44	N82-16475 *	US-PATENT-CLASS-52-404	c 33	N71-25351 *	US-PATENT-CLASS-523-454	c 27	N85-34282 *
US-PATENT-CLASS-49-DIG.1	c 34	N78-25350 *	US-PATENT-CLASS-52-404	c 16	N84-22601 *	US-PATENT-CLASS-523-456	c 24	N84-11213 *
US-PATENT-CLASS-49-171	c 31	N81-19343 *	US-PATENT-CLASS-52-506	c 16	N84-22601 *	US-PATENT-CLASS-523-458	c 24	N84-34571 *
US-PATENT-CLASS-49-253	c 18	N90-19278 *	US-PATENT-CLASS-52-506	c 37	N85-30335 *	US-PATENT-CLASS-523-458	c 27	N85-34282 *
US-PATENT-CLASS-49-479	c 34	N78-25350 *	US-PATENT-CLASS-52-511	c 31	N87-16918 *	US-PATENT-CLASS-523-461	c 27	N86-27451 *
US-PATENT-CLASS-49-485	c 34	N78-25350 *	US-PATENT-CLASS-52-51	c 44	N77-31601 *	US-PATENT-CLASS-523-66468	c 24	N86-19380 *
US-PATENT-CLASS-49-68	c 18	N74-22136 *	US-PATENT-CLASS-52-573	c 15	N72-28496 *	US-PATENT-CLASS-524-104	c 27	N83-28240 *
US-PATENT-CLASS-5-345	c 05	N70-33285 *	US-PATENT-CLASS-52-573	c 18	N89-28554 *	US-PATENT-CLASS-524-171	c 27	N84-22747 *
US-PATENT-CLASS-5-459	c 03	N84-33394 *	US-PATENT-CLASS-52-594	c 15	N72-25454 *	US-PATENT-CLASS-524-173	c 27	N83-28240 *
US-PATENT-CLASS-5-69	c 05	N72-11085 *	US-PATENT-CLASS-52-594	c 32	N73-13921 *	US-PATENT-CLASS-524-233	c 27	N83-28240 *
US-PATENT-CLASS-5-81-R	c 85	N87-21755 *	US-PATENT-CLASS-52-632	c 31	N81-27324 *	US-PATENT-CLASS-524-233	c 27	N90-16950 *
US-PATENT-CLASS-5-82	c 05	N71-23159 *	US-PATENT-CLASS-52-632	c 31	N86-19479 *	US-PATENT-CLASS-524-366	c 27	N90-16950 *
US-PATENT-CLASS-501-123	c 27	N92-16122 *	US-PATENT-CLASS-52-632	c 37	N86-32737 *	US-PATENT-CLASS-524-371	c 27	N84-14324 *
US-PATENT-CLASS-501-127	c 27	N92-16122 *	US-PATENT-CLASS-52-632	c 31	N87-25492 *	US-PATENT-CLASS-524-378	c 27	N90-16950 *
US-PATENT-CLASS-501-39	c 24	N92-16026 *	US-PATENT-CLASS-52-637	c 39	N76-31562 *	US-PATENT-CLASS-524-388	c 27	N85-29044 *
US-PATENT-CLASS-501-54	c 24	N92-16026 *	US-PATENT-CLASS-52-637	c 31	N86-19479 *	US-PATENT-CLASS-524-404	c 27	N87-22845 *
US-PATENT-CLASS-501-88	c 27	N88-29040 *	US-PATENT-CLASS-52-645	c 31	N81-25259 *	US-PATENT-CLASS-524-436	c 27	N83-19900 *
US-PATENT-CLASS-501-88	c 27	N90-21177 *	US-PATENT-CLASS-52-645	c 37	N86-25789 *	US-PATENT-CLASS-524-437	c 27	N83-19900 *
US-PATENT-CLASS-501-91	c 27	N88-29040 *	US-PATENT-CLASS-52-645	c 37	N86-32737 *	US-PATENT-CLASS-524-494	c 27	N84-14322 *
US-PATENT-CLASS-501-91	c 27	N90-21177 *	US-PATENT-CLASS-52-646	c 31	N73-32749 *	US-PATENT-CLASS-524-495	c 27	N92-21711 *
US-PATENT-CLASS-501-92	c 27	N88-29040 *	US-PATENT-CLASS-52-646	c 31	N86-19479 *	US-PATENT-CLASS-524-496	c 27	N84-14322 *
US-PATENT-CLASS-501-92	c 27	N90-21177 *	US-PATENT-CLASS-52-646	c 37	N86-32737 *	US-PATENT-CLASS-524-500	c 27	N84-14322 *
US-PATENT-CLASS-501-93	c 27	N88-29040 *	US-PATENT-CLASS-52-646	c 31	N87-25492 *	US-PATENT-CLASS-524-503	c 27	N83-19900 *
US-PATENT-CLASS-502-217	c 25	N90-23517 *	US-PATENT-CLASS-52-646	c 18	N88-28958 *	US-PATENT-CLASS-524-530	c 27	N84-14322 *
US-PATENT-CLASS-502-218	c 25	N90-23517 *	US-PATENT-CLASS-52-646	c 37	N88-29180 *	US-PATENT-CLASS-524-548	c 27	N86-20560 *
US-PATENT-CLASS-502-226	c 25	N90-23517 *	US-PATENT-CLASS-52-646	c 18	N91-21221 *	US-PATENT-CLASS-524-548	c 27	N87-22845 *
US-PATENT-CLASS-502-239	c 25	N90-23517 *	US-PATENT-CLASS-52-646	c 18	N91-27199 *	US-PATENT-CLASS-524-564	c 27	N83-19900 *
US-PATENT-CLASS-502-241	c 25	N90-23517 *	US-PATENT-CLASS-52-648	c 11	N72-25287 *	US-PATENT-CLASS-524-567	c 27	N85-29044 *
US-PATENT-CLASS-502-245	c 25	N90-23517 *	US-PATENT-CLASS-52-648	c 39	N76-31562 *	US-PATENT-CLASS-524-600	c 27	N90-16950 *
US-PATENT-CLASS-502-324	c 25	N90-23517 *	US-PATENT-CLASS-52-648	c 31	N81-25258 *	US-PATENT-CLASS-524-600	c 27	N91-15402 *
US-PATENT-CLASS-502-324	c 25	N91-21270 *	US-PATENT-CLASS-52-648	c 31	N86-19479 *	US-PATENT-CLASS-524-607	c 27	N90-16950 *
US-PATENT-CLASS-502-325	c 25	N90-20180 *	US-PATENT-CLASS-52-648	c 37	N86-25789 *	US-PATENT-CLASS-524-726	c 27	N83-28240 *
US-PATENT-CLASS-502-339	c 25	N90-20154 *	US-PATENT-CLASS-52-648	c 18	N88-28958 *	US-PATENT-CLASS-524-786	c 27	N83-19900 *
US-PATENT-CLASS-502-339	c 25	N90-20180 *	US-PATENT-CLASS-52-648	c 37	N88-29180 *	US-PATENT-CLASS-525-107	c 27	N85-34281 *
US-PATENT-CLASS-502-344	c 25	N90-20180 *	US-PATENT-CLASS-52-648	c 18	N89-28554 *	US-PATENT-CLASS-525-108	c 27	N86-27451 *
US-PATENT-CLASS-502-34	c 25	N91-21270 *	US-PATENT-CLASS-52-64	c 31	N73-32749 *	US-PATENT-CLASS-525-113	c 27	N85-34281 *
US-PATENT-CLASS-502-352	c 25	N90-20154 *	US-PATENT-CLASS-52-651	c 39	N76-31562 *	US-PATENT-CLASS-525-115	c 27	N86-27451 *
US-PATENT-CLASS-502-38	c 25	N90-20154 *	US-PATENT-CLASS-52-655	c 11	N72-25287 *	US-PATENT-CLASS-525-119	c 27	N85-34281 *
US-PATENT-CLASS-502-53	c 25	N90-20154 *	US-PATENT-CLASS-52-705	c 37	N76-19437 *	US-PATENT-CLASS-525-121	c 27	N86-27451 *
US-PATENT-CLASS-502-73	c 25	N92-10073 *	US-PATENT-CLASS-52-71	c 18	N75-27040 *	US-PATENT-CLASS-525-122	c 27	N86-27451 *
US-PATENT-CLASS-505-1	c 33	N91-31529 *	US-PATENT-CLASS-52-726	c 39	N76-31562 *	US-PATENT-CLASS-525-181	c 27	N83-28240 *
US-PATENT-CLASS-505-1	c 76	N92-10681 *	US-PATENT-CLASS-52-726	c 31	N81-25258 *	US-PATENT-CLASS-525-181	c 27	N85-21349 *
US-PATENT-CLASS-505-1	c 14	N92-15081 *	US-PATENT-CLASS-52-743	c 37	N81-14317 *	US-PATENT-CLASS-525-182	c 27	N87-22845 *
US-PATENT-CLASS-505-701	c 33	N91-31529 *	US-PATENT-CLASS-52-745	c 39	N76-31562 *	US-PATENT-CLASS-525-183	c 27	N83-28240 *
US-PATENT-CLASS-505-702	c 33	N91-31529 *	US-PATENT-CLASS-52-745	c 31	N81-27323 *	US-PATENT-CLASS-525-183	c 27	N85-21349 *
US-PATENT-CLASS-505-703	c 33	N91-31529 *	US-PATENT-CLASS-52-745	c 37	N85-30335 *	US-PATENT-CLASS-525-184	c 27	N83-28240 *
US-PATENT-CLASS-505-704	c 33	N91-31529 *	US-PATENT-CLASS-52-749	c 39	N76-31562 *	US-PATENT-CLASS-525-184	c 27	N85-21349 *
US-PATENT-CLASS-505-728	c 76	N92-10681 *	US-PATENT-CLASS-52-758F	c 37	N76-19437 *	US-PATENT-CLASS-525-186	c 27	N85-34281 *
US-PATENT-CLASS-505-862	c 76	N92-22041 *	US-PATENT-CLASS-52-806	c 24	N84-11214 *	US-PATENT-CLASS-525-186	c 27	N86-20560 *
US-PATENT-CLASS-505-871	c 76	N92-22041 *	US-PATENT-CLASS-52-808	c 24	N84-11214 *	US-PATENT-CLASS-525-229	c 27	N85-34281 *
US-PATENT-CLASS-51-170	c 15	N71-26134 *	US-PATENT-CLASS-52-80	c 18	N72-25540 *	US-PATENT-CLASS-525-229	c 27	N85-29043 *
US-PATENT-CLASS-51-216	c 15	N72-20444 *	US-PATENT-CLASS-52-80	c 18	N72-25541 *	US-PATENT-CLASS-525-275	c 27	N92-22044 *
US-PATENT-CLASS-51-225	c 37	N74-27905 *	US-PATENT-CLASS-52-80	c 31	N73-32749 *	US-PATENT-CLASS-525-282	c 27	N84-14322 *
US-PATENT-CLASS-51-234	c 37	N74-27905 *	US-PATENT-CLASS-52-814	c 18	N84-33450 *	US-PATENT-CLASS-525-282	c 27	N87-15304 *
US-PATENT-CLASS-51-235	c 37	N78-17383 *	US-PATENT-CLASS-52-814	c 31	N87-16918 *	US-PATENT-CLASS-525-287	c 27	N84-14322 *
US-PATENT-CLASS-51-235	c 76	N80-18951 *	US-PATENT-CLASS-52-814	c 31	N89-12786 *	US-PATENT-CLASS-525-326	c 27	N80-24438 *
US-PATENT-CLASS-51-277	c 74	N80-24149 *	US-PATENT-CLASS-52-81	c 37	N82-32732 *	US-PATENT-CLASS-525-336	c 27	N80-24438 *
US-PATENT-CLASS-51-281-R	c 31	N87-25491 *	US-PATENT-CLASS-52-821	c 31	N89-12786 *	US-PATENT-CLASS-525-340	c 27	N80-24438 *
US-PATENT-CLASS-51-283R	c 74	N80-24149 *	US-PATENT-CLASS-521-109.1	c 27	N92-16123 *	US-PATENT-CLASS-525-36	c 27	N87-22848 *
US-PATENT-CLASS-51-283	c 46	N74-23069 *	US-PATENT-CLASS-521-124	c 25	N80-16116 *	US-PATENT-CLASS-525-374	c 27	N80-24438 *
US-PATENT-CLASS-51-320	c 15	N72-20444 *	US-PATENT-CLASS-521-125	c 25	N80-16116 *	US-PATENT-CLASS-525-375	c 27	N80-24438 *
US-PATENT-CLASS-51-323	c 15	N72-20444 *	US-PATENT-CLASS-521-127	c 25	N92-16123 *	US-PATENT-CLASS-525-384	c 28	N81-15119 *
US-PATENT-CLASS-51-57	c 15	N71-22705 *	US-PATENT-CLASS-521-135	c 27	N92-16123 *	US-PATENT-CLASS-525-389	c 27	N84-22750 *
US-PATENT-CLASS-51-73R	c 37	N85-21650 *	US-PATENT-CLASS-521-136	c 21	N84-28361 *	US-PATENT-CLASS-525-397	c 27	N88-18725 *
US-PATENT-CLASS-51-97R	c 37	N74-27905 *	US-PATENT-CLASS-521-141	c 51	N84-28361 *	US-PATENT-CLASS-525-417	c 27	N84-22745 *
US-PATENT-CLASS-52-DIG.10	c 18	N72-25540 *	US-PATENT-CLASS-521-142	c 51	N84-28361 *	US-PATENT-CLASS-525-420	c 27	N85-20123 *
US-PATENT-CLASS-52-DIG.10	c 18	N72-25541 *	US-PATENT-CLASS-521-145	c 27	N90-16949 *	US-PATENT-CLASS-525-421	c 27	N92-22044 *
US-PATENT-CLASS-52-108	c 15	N72-18477 *	US-PATENT-CLASS-521-146	c 25	N80-23383 *	US-PATENT-CLASS-525-422	c 27	N91-31307 *
US-PATENT-CLASS-52-108	c 31	N81-27323 *	US-PATENT-CLASS-521-149	c 51	N84-28361 *	US-PATENT-CLASS-525-422	c 27	N92-21711 *
US-PATENT-CLASS-52-108	c 31	N87-25492 *	US-PATENT-CLASS-521-157	c 25	N80-16116 *	US-PATENT-CLASS-525-422	c 27	N92-22044 *
US-PATENT-CLASS-52-109	c 31	N73-32749 *	US-PATENT-CLASS-521-178	c 27	N90-16949 *	US-PATENT-CLASS-525-423	c 24	N86-19380 *
US-PATENT-CLASS-52-110	c 37	N86-25791 *	US-PATENT-CLASS-521-178	c 27	N92-16123 *	US-PATENT-CLASS-525-425	c 33	N88-23941 *
US-PATENT-CLASS-52-111	c 31	N81-27324 *	US-PATENT-CLASS-521-189	c 27	N90-16949 *	US-PATENT-CLASS-525-426	c 27	N80-26446 *
US-PATENT-CLASS-52-111	c 37	N86-25789 *	US-PATENT-CLASS-521-27	c 27	N81-14076 *			
US-PATENT-CLASS-52-111	c 37	N86-32737 *						

REPORT NUMBER INDEX

US-PATENT-CLASS-528-342

US-PATENT-CLASS-525-426	c 27	N84-22746 *	US-PATENT-CLASS-528-125	c 27	N89-14337 *	US-PATENT-CLASS-528-225	c 27	N79-28307 *
US-PATENT-CLASS-525-426	c 27	N87-28657 *	US-PATENT-CLASS-528-125	c 27	N90-16950 *	US-PATENT-CLASS-528-225	c 27	N82-11206 *
US-PATENT-CLASS-525-432	c 27	N86-19456 *	US-PATENT-CLASS-528-125	c 27	N90-23545 *	US-PATENT-CLASS-528-225	c 27	N91-27372 *
US-PATENT-CLASS-525-432	c 27	N87-28657 *	US-PATENT-CLASS-528-125	c 27	N90-23546 *	US-PATENT-CLASS-528-226	c 27	N83-34041 *
US-PATENT-CLASS-525-432	c 24	N91-25200 *	US-PATENT-CLASS-528-125	c 27	N91-15403 *	US-PATENT-CLASS-528-226	c 27	N85-20124 *
US-PATENT-CLASS-525-432	c 27	N92-21711 *	US-PATENT-CLASS-528-125	c 23	N91-27220 *	US-PATENT-CLASS-528-226	c 27	N85-21348 *
US-PATENT-CLASS-525-436	c 27	N86-19456 *	US-PATENT-CLASS-528-125	c 25	N92-16043 *	US-PATENT-CLASS-528-227	c 27	N79-28307 *
US-PATENT-CLASS-525-436	c 27	N87-28657 *	US-PATENT-CLASS-528-126	c 27	N79-28307 *	US-PATENT-CLASS-528-227	c 27	N91-27372 *
US-PATENT-CLASS-525-436	c 27	N91-15402 *	US-PATENT-CLASS-528-126	c 27	N82-11206 *	US-PATENT-CLASS-528-228	c 27	N81-27272 *
US-PATENT-CLASS-525-471	c 27	N91-31307 *	US-PATENT-CLASS-528-126	c 27	N83-34040 *	US-PATENT-CLASS-528-228	c 27	N82-11206 *
US-PATENT-CLASS-525-474	c 27	N83-28240 *	US-PATENT-CLASS-528-126	c 27	N85-21348 *	US-PATENT-CLASS-528-228	c 27	N83-34040 *
US-PATENT-CLASS-525-474	c 27	N85-21349 *	US-PATENT-CLASS-528-126	c 27	N90-23545 *	US-PATENT-CLASS-528-228	c 27	N84-22745 *
US-PATENT-CLASS-525-47	c 27	N85-29043 *	US-PATENT-CLASS-528-126	c 27	N90-23546 *	US-PATENT-CLASS-528-228	c 27	N89-16042 *
US-PATENT-CLASS-525-484	c 24	N84-34571 *	US-PATENT-CLASS-528-126	c 27	N91-15403 *	US-PATENT-CLASS-528-228	c 27	N91-27372 *
US-PATENT-CLASS-525-4	c 25	N80-23383 *	US-PATENT-CLASS-528-126	c 23	N91-27220 *	US-PATENT-CLASS-528-229	c 27	N79-28307 *
US-PATENT-CLASS-525-527	c 24	N86-19380 *	US-PATENT-CLASS-528-126	c 25	N92-16043 *	US-PATENT-CLASS-528-229	c 27	N79-33316 *
US-PATENT-CLASS-525-532	c 23	N85-28973 *	US-PATENT-CLASS-528-127	c 27	N79-28307 *	US-PATENT-CLASS-528-229	c 27	N81-29229 *
US-PATENT-CLASS-525-534	c 27	N84-22747 *	US-PATENT-CLASS-528-128	c 27	N79-28307 *	US-PATENT-CLASS-528-229	c 27	N83-34040 *
US-PATENT-CLASS-525-534	c 23	N85-28973 *	US-PATENT-CLASS-528-128	c 27	N83-34040 *	US-PATENT-CLASS-528-229	c 27	N85-21348 *
US-PATENT-CLASS-525-534	c 27	N86-27450 *	US-PATENT-CLASS-528-128	c 27	N84-22749 *	US-PATENT-CLASS-528-229	c 27	N85-21350 *
US-PATENT-CLASS-525-535	c 27	N84-22747 *	US-PATENT-CLASS-528-128	c 27	N85-21348 *	US-PATENT-CLASS-528-229	c 27	N87-21112 *
US-PATENT-CLASS-525-535	c 27	N86-27450 *	US-PATENT-CLASS-528-128	c 27	N89-14337 *	US-PATENT-CLASS-528-229	c 27	N85-21352 *
US-PATENT-CLASS-525-536	c 27	N84-22747 *	US-PATENT-CLASS-528-128	c 27	N90-23545 *	US-PATENT-CLASS-528-229	c 27	N85-34280 *
US-PATENT-CLASS-525-56	c 23	N81-29160 *	US-PATENT-CLASS-528-128	c 27	N90-23546 *	US-PATENT-CLASS-528-229	c 27	N85-34282 *
US-PATENT-CLASS-525-61	c 27	N81-24257 *	US-PATENT-CLASS-528-128	c 23	N91-27220 *	US-PATENT-CLASS-528-229	c 27	N86-19457 *
US-PATENT-CLASS-525-61	c 23	N81-29160 *	US-PATENT-CLASS-528-128	c 25	N92-16043 *	US-PATENT-CLASS-528-229	c 27	N87-21112 *
US-PATENT-CLASS-525-61	c 25	N83-13188 *	US-PATENT-CLASS-528-128	c 27	N83-34040 *	US-PATENT-CLASS-528-229	c 27	N87-22847 *
US-PATENT-CLASS-525-903	c 27	N87-28657 *	US-PATENT-CLASS-528-166	c 27	N85-21348 *	US-PATENT-CLASS-528-229	c 23	N90-19300 *
US-PATENT-CLASS-525-903	c 27	N92-21711 *	US-PATENT-CLASS-528-167	c 27	N85-21347 *	US-PATENT-CLASS-528-22	c 27	N92-16121 *
US-PATENT-CLASS-525-905	c 27	N88-18725 *	US-PATENT-CLASS-528-168	c 27	N81-27271 *	US-PATENT-CLASS-528-230	c 27	N91-27372 *
US-PATENT-CLASS-526-13	c 27	N78-32256 *	US-PATENT-CLASS-528-168	c 27	N82-18389 *	US-PATENT-CLASS-528-233	c 27	N91-27372 *
US-PATENT-CLASS-526-193	c 27	N78-15276 *	US-PATENT-CLASS-528-168	c 27	N85-21347 *	US-PATENT-CLASS-528-239	c 27	N85-20124 *
US-PATENT-CLASS-526-1	c 27	N76-24405 *	US-PATENT-CLASS-528-168	c 27	N85-34280 *	US-PATENT-CLASS-528-241	c 27	N85-20124 *
US-PATENT-CLASS-526-201	c 25	N81-19242 *	US-PATENT-CLASS-528-168	c 27	N87-16909 *	US-PATENT-CLASS-528-258	c 27	N85-20124 *
US-PATENT-CLASS-526-204	c 25	N85-30039 *	US-PATENT-CLASS-528-168	c 27	N87-25469 *	US-PATENT-CLASS-528-25	c 27	N84-22747 *
US-PATENT-CLASS-526-217	c 27	N85-21350 *	US-PATENT-CLASS-528-170	c 27	N85-21347 *	US-PATENT-CLASS-528-26	c 27	N84-22747 *
US-PATENT-CLASS-526-217	c 25	N85-30039 *	US-PATENT-CLASS-528-170	c 24	N86-25416 *	US-PATENT-CLASS-528-26	c 27	N87-14516 *
US-PATENT-CLASS-526-225	c 27	N78-15276 *	US-PATENT-CLASS-528-170	c 27	N86-31726 *	US-PATENT-CLASS-528-271	c 27	N84-27884 *
US-PATENT-CLASS-526-23	c 27	N78-32256 *	US-PATENT-CLASS-528-171-175	c 27	N90-23545 *	US-PATENT-CLASS-528-279	c 27	N85-20124 *
US-PATENT-CLASS-526-248	c 27	N92-22044 *	US-PATENT-CLASS-528-171	c 27	N86-27450 *	US-PATENT-CLASS-528-288	c 27	N85-29043 *
US-PATENT-CLASS-526-249	c 27	N92-22044 *	US-PATENT-CLASS-528-172	c 27	N82-11206 *	US-PATENT-CLASS-528-289	c 27	N85-29043 *
US-PATENT-CLASS-526-255	c 27	N76-24405 *	US-PATENT-CLASS-528-172	c 27	N84-22749 *	US-PATENT-CLASS-528-303	c 27	N85-29043 *
US-PATENT-CLASS-526-258	c 27	N92-16121 *	US-PATENT-CLASS-528-172	c 27	N90-23546 *	US-PATENT-CLASS-528-304	c 27	N85-29043 *
US-PATENT-CLASS-526-259	c 27	N83-34040 *	US-PATENT-CLASS-528-172	c 27	N91-15403 *	US-PATENT-CLASS-528-308	c 27	N90-21198 *
US-PATENT-CLASS-526-261	c 27	N80-24438 *	US-PATENT-CLASS-528-172	c 25	N92-16043 *	US-PATENT-CLASS-528-30	c 27	N88-29040 *
US-PATENT-CLASS-526-262	c 27	N81-27272 *	US-PATENT-CLASS-528-173	c 27	N82-11206 *	US-PATENT-CLASS-528-30	c 27	N90-21177 *
US-PATENT-CLASS-526-262	c 27	N84-22745 *	US-PATENT-CLASS-528-173	c 27	N91-15403 *	US-PATENT-CLASS-528-310	c 27	N81-17262 *
US-PATENT-CLASS-526-262	c 27	N84-27885 *	US-PATENT-CLASS-528-173	c 25	N92-16043 *	US-PATENT-CLASS-528-310	c 27	N81-24256 *
US-PATENT-CLASS-526-262	c 27	N85-21347 *	US-PATENT-CLASS-528-174	c 27	N86-27450 *	US-PATENT-CLASS-528-310	c 27	N82-24338 *
US-PATENT-CLASS-526-262	c 27	N85-21350 *	US-PATENT-CLASS-528-176	c 27	N86-27450 *	US-PATENT-CLASS-528-310	c 27	N84-27884 *
US-PATENT-CLASS-526-262	c 27	N85-21351 *	US-PATENT-CLASS-528-176	c 27	N87-22848 *	US-PATENT-CLASS-528-310	c 23	N86-19376 *
US-PATENT-CLASS-526-262	c 27	N85-21352 *	US-PATENT-CLASS-528-176	c 27	N90-21198 *	US-PATENT-CLASS-528-314	c 25	N85-30039 *
US-PATENT-CLASS-526-262	c 25	N85-28982 *	US-PATENT-CLASS-528-176	c 27	N91-15403 *	US-PATENT-CLASS-528-315	c 27	N85-21350 *
US-PATENT-CLASS-526-262	c 25	N85-30039 *	US-PATENT-CLASS-528-179	c 27	N86-19456 *	US-PATENT-CLASS-528-321	c 27	N85-21347 *
US-PATENT-CLASS-526-262	c 27	N86-20560 *	US-PATENT-CLASS-528-179	c 25	N92-16043 *	US-PATENT-CLASS-528-321	c 24	N86-25416 *
US-PATENT-CLASS-526-262	c 24	N86-21590 *	US-PATENT-CLASS-528-180	c 27	N82-11206 *	US-PATENT-CLASS-528-321	c 27	N86-31726 *
US-PATENT-CLASS-526-262	c 27	N87-22845 *	US-PATENT-CLASS-528-182	c 27	N86-19456 *	US-PATENT-CLASS-528-321	c 27	N87-16909 *
US-PATENT-CLASS-526-262	c 23	N90-21118 *	US-PATENT-CLASS-528-183	c 27	N84-22746 *	US-PATENT-CLASS-528-322	c 27	N89-16042 *
US-PATENT-CLASS-526-262	c 23	N91-14418 *	US-PATENT-CLASS-528-183	c 27	N85-20123 *	US-PATENT-CLASS-528-322	c 27	N81-17260 *
US-PATENT-CLASS-526-262	c 27	N92-22044 *	US-PATENT-CLASS-528-183	c 27	N86-29039 *	US-PATENT-CLASS-528-322	c 27	N84-22745 *
US-PATENT-CLASS-526-265	c 27	N86-20560 *	US-PATENT-CLASS-528-184	c 27	N87-22848 *	US-PATENT-CLASS-528-322	c 27	N84-27885 *
US-PATENT-CLASS-526-265	c 24	N86-28131 *	US-PATENT-CLASS-528-185	c 27	N84-22749 *	US-PATENT-CLASS-528-322	c 27	N85-21347 *
US-PATENT-CLASS-526-274	c 27	N85-21347 *	US-PATENT-CLASS-528-185	c 27	N85-21348 *	US-PATENT-CLASS-528-322	c 27	N85-21350 *
US-PATENT-CLASS-526-275	c 27	N78-32256 *	US-PATENT-CLASS-528-185	c 27	N86-19456 *	US-PATENT-CLASS-528-322	c 27	N85-21351 *
US-PATENT-CLASS-526-275	c 27	N80-24438 *	US-PATENT-CLASS-528-185	c 27	N90-23546 *	US-PATENT-CLASS-528-322	c 27	N85-21352 *
US-PATENT-CLASS-526-276	c 27	N78-32256 *	US-PATENT-CLASS-528-186	c 27	N85-21348 *	US-PATENT-CLASS-528-322	c 25	N85-28982 *
US-PATENT-CLASS-526-276	c 27	N80-24438 *	US-PATENT-CLASS-528-187	c 27	N85-21348 *	US-PATENT-CLASS-528-322	c 25	N85-30039 *
US-PATENT-CLASS-526-278	c 27	N78-32256 *	US-PATENT-CLASS-528-188	c 23	N90-19300 *	US-PATENT-CLASS-528-322	c 27	N86-19457 *
US-PATENT-CLASS-526-278	c 27	N80-24438 *	US-PATENT-CLASS-528-188	c 27	N90-23546 *	US-PATENT-CLASS-528-322	c 24	N86-25416 *
US-PATENT-CLASS-526-27	c 27	N78-32256 *	US-PATENT-CLASS-528-192	c 27	N85-20123 *	US-PATENT-CLASS-528-322	c 27	N86-31726 *
US-PATENT-CLASS-526-285	c 27	N83-34040 *	US-PATENT-CLASS-528-192	c 27	N87-22848 *	US-PATENT-CLASS-528-322	c 27	N87-16909 *
US-PATENT-CLASS-526-285	c 27	N86-27450 *	US-PATENT-CLASS-528-193	c 27	N87-22848 *	US-PATENT-CLASS-528-322	c 27	N87-21112 *
US-PATENT-CLASS-526-328	c 27	N85-29043 *	US-PATENT-CLASS-528-207	c 27	N80-16158 *	US-PATENT-CLASS-528-322	c 27	N89-16042 *
US-PATENT-CLASS-526-329.2	c 27	N85-29043 *	US-PATENT-CLASS-528-207	c 27	N82-11206 *	US-PATENT-CLASS-528-322	c 23	N90-21118 *
US-PATENT-CLASS-526-49	c 27	N78-32256 *	US-PATENT-CLASS-528-208	c 27	N80-16158 *	US-PATENT-CLASS-528-322	c 23	N91-14418 *
US-PATENT-CLASS-526-50	c 27	N78-32256 *	US-PATENT-CLASS-528-208	c 27	N82-11206 *	US-PATENT-CLASS-528-327	c 27	N84-27884 *
US-PATENT-CLASS-526-60	c 27	N90-23544 *	US-PATENT-CLASS-528-210	c 27	N82-11206 *	US-PATENT-CLASS-528-327	c 27	N86-19455 *
US-PATENT-CLASS-526-7	c 44	N79-25481 *	US-PATENT-CLASS-528-211	c 27	N82-11206 *	US-PATENT-CLASS-528-327	c 27	N87-21112 *
US-PATENT-CLASS-526-88	c 25	N81-19242 *	US-PATENT-CLASS-528-212	c 27	N90-23545 *	US-PATENT-CLASS-528-328	c 27	N82-24338 *
US-PATENT-CLASS-526-914	c 28	N81-15119 *	US-PATENT-CLASS-528-219	c 23	N91-27220 *	US-PATENT-CLASS-528-331	c 27	N79-28307 *
US-PATENT-CLASS-526-9	c 44	N79-25481 *	US-PATENT-CLASS-528-220	c 27	N83-34040 *	US-PATENT-CLASS-528-331	c 27	N84-27884 *
US-PATENT-CLASS-528-102	c 24	N86-19380 *	US-PATENT-CLASS-528-220	c 27	N84-22746 *	US-PATENT-CLASS-528-331	c 27	N87-21112 *
US-PATENT-CLASS-528-103	c 24	N86-19380 *	US-PATENT-CLASS-528-220	c 27	N85-20123 *	US-PATENT-CLASS-528-336	c 27	N79-28307 *
US-PATENT-CLASS-528-106	c 27	N85-34282 *	US-PATENT-CLASS-528-220	c 24	N86-25416 *	US-PATENT-CLASS-528-336	c 27	N85-20123 *
US-PATENT-CLASS-528-108	c 23	N86-32525 *	US-PATENT-CLASS-528-220	c 27	N86-31726 *	US-PATENT-CLASS-528-336	c 27	N85-21350 *
US-PATENT-CLASS-528-108	c 27	N87-25469 *	US-PATENT-CLASS-528-220	c 27	N87-21112 *	US-PATENT-CLASS-528-336	c 27	N86-32568 *
US-PATENT-CLASS-528-10	c 27	N88-29040 *	US-PATENT-CLASS-528-220	c 27	N89-16042 *	US-PATENT-CLASS-528-337	c 27	N79-28307 *
US-PATENT-CLASS-528-10	c 27	N90-21177 *	US-PATENT-CLASS-528-220	c 23	N91-27220 *	US-PATENT-CLASS-528-337	c 23	N86-32525 *
US-PATENT-CLASS-528-110	c 24	N84-11213 *	US-PATENT-CLASS-528-220	c 27	N91-27372 *	US-PATENT-CLASS-528-337	c 27	N86-32568 *
US-PATENT-CLASS-528-113	c 27	N85-34281 *	US-PATENT-CLASS-528-221	c 27	N79-28307 *	US-PATENT-CLASS-528-338	c 27	N79-28307 *
US-PATENT-CLASS-528-117	c 27	N85-34281 *	US-PATENT-CLASS-528-222	c 27	N81-29229 *	US-PATENT-CLASS-528-340	c 27	N86-32568 *
US-PATENT-CLASS-528-118	c 27	N81-17260 *	US-PATENT-CLASS-528-222	c 27	N83-34040 *	US-PATENT-CLASS-528-341	c 27	N86-29039 *
US-PATENT-CLASS-528-124	c 23	N86-32525 *	US-PATENT-CLASS-528-222	c 27	N83-34041 *	US-PATENT-CLASS-528-342	c 27	N79-28307 *
US-PATENT-CLASS-528-125	c 27	N83-34040 *	US-PATENT-CLASS-528-222	c 27	N86-29039 *	US-PATENT-CLASS-528-342	c 27	N84-27885 *
US-PATENT-CLASS-528-125	c 27	N84-22749 *	US-PATENT-CLASS-528-222	c 27	N91-27372 *	US-PATENT-CLASS-528-342	c 27	N85-21350 *
US-PATENT-CLASS-528-125	c 27	N85-21348 *	US-PATENT-CLASS-528-223	c 27	N79-28307 *	US-PATENT-CLASS-528-342	c 27	N85-21351 *

US-PATENT-CLASS-528-342	c 27	N85-21352 *	US-PATENT-CLASS-536-84	c 27	N77-30236 *	US-PATENT-CLASS-55-418	c 15	N71-22721 *
US-PATENT-CLASS-528-342	c 25	N85-28982 *	US-PATENT-CLASS-538-117	c 27	N81-17260 *	US-PATENT-CLASS-55-43	c 34	N74-30608 *
US-PATENT-CLASS-528-342	c 27	N86-19457 *	US-PATENT-CLASS-544-193	c 27	N78-15276 *	US-PATENT-CLASS-55-446	c 15	N72-22489 *
US-PATENT-CLASS-528-345	c 27	N84-22746 *	US-PATENT-CLASS-544-193	c 27	N79-28307 *	US-PATENT-CLASS-55-464	c 15	N72-22489 *
US-PATENT-CLASS-528-345	c 27	N85-20123 *	US-PATENT-CLASS-544-195	c 27	N78-32256 *	US-PATENT-CLASS-55-466	c 35	N84-17555 *
US-PATENT-CLASS-528-345	c 27	N86-19457 *	US-PATENT-CLASS-544-215	c 27	N84-22744 *	US-PATENT-CLASS-55-466	c 31	N90-20254 *
US-PATENT-CLASS-528-347	c 27	N86-32568 *	US-PATENT-CLASS-546-262	c 27	N87-22847 *	US-PATENT-CLASS-55-493	c 14	N72-23457 *
US-PATENT-CLASS-528-348	c 27	N84-22746 *	US-PATENT-CLASS-546-264	c 27	N87-22847 *	US-PATENT-CLASS-55-498	c 14	N72-23457 *
US-PATENT-CLASS-528-350	c 24	N91-25200 *	US-PATENT-CLASS-546-339	c 27	N87-16908 *	US-PATENT-CLASS-55-502	c 14	N72-23457 *
US-PATENT-CLASS-528-351	c 27	N82-11206 *	US-PATENT-CLASS-546-346	c 27	N87-16908 *	US-PATENT-CLASS-55-510	c 25	N74-12813 *
US-PATENT-CLASS-528-352	c 27	N85-21348 *	US-PATENT-CLASS-546-350	c 27	N87-16908 *	US-PATENT-CLASS-55-518	c 25	N74-12813 *
US-PATENT-CLASS-528-352	c 27	N85-34280 *	US-PATENT-CLASS-547-131	c 23	N82-28353 *	US-PATENT-CLASS-55-521	c 14	N72-23457 *
US-PATENT-CLASS-528-352	c 27	N86-19456 *	US-PATENT-CLASS-548-400	c 23	N90-21118 *	US-PATENT-CLASS-55-521	c 35	N86-29174 *
US-PATENT-CLASS-528-352	c 23	N86-32525 *	US-PATENT-CLASS-548-413	c 27	N83-31854 *	US-PATENT-CLASS-55-523	c 34	N76-27515 *
US-PATENT-CLASS-528-352	c 23	N90-19300 *	US-PATENT-CLASS-548-413	c 23	N86-19376 *	US-PATENT-CLASS-55-526	c 34	N76-27515 *
US-PATENT-CLASS-528-352	c 24	N91-25200 *	US-PATENT-CLASS-548-413	c 27	N87-23751 *	US-PATENT-CLASS-55-528	c 35	N86-29174 *
US-PATENT-CLASS-528-353	c 27	N81-19296 *	US-PATENT-CLASS-548-415	c 27	N83-31854 *	US-PATENT-CLASS-55-52	c 71	N83-35781 *
US-PATENT-CLASS-528-353	c 27	N82-11206 *	US-PATENT-CLASS-548-415	c 27	N84-22745 *	US-PATENT-CLASS-55-55	c 06	N72-31140 *
US-PATENT-CLASS-528-353	c 27	N85-21348 *	US-PATENT-CLASS-548-520	c 27	N90-23545 *	US-PATENT-CLASS-55-66	c 25	N80-23383 *
US-PATENT-CLASS-528-353	c 27	N85-34280 *	US-PATENT-CLASS-548-524	c 23	N90-21118 *	US-PATENT-CLASS-55-67	c 23	N77-17161 *
US-PATENT-CLASS-528-353	c 27	N86-19456 *	US-PATENT-CLASS-548-549	c 23	N91-14419 *	US-PATENT-CLASS-55-67	c 25	N80-23383 *
US-PATENT-CLASS-528-353	c 27	N89-16042 *	US-PATENT-CLASS-549-241	c 23	N88-26404 *	US-PATENT-CLASS-55-68	c 25	N80-23383 *
US-PATENT-CLASS-528-353	c 27	N90-16950 *	US-PATENT-CLASS-549-241	c 25	N90-23497 *	US-PATENT-CLASS-55-68	c 45	N91-14662 *
US-PATENT-CLASS-528-353	c 23	N90-19300 *	US-PATENT-CLASS-549-335	c 23	N85-33187 *	US-PATENT-CLASS-55-6	c 35	N84-17555 *
US-PATENT-CLASS-528-353	c 27	N90-23546 *	US-PATENT-CLASS-55-DIG.25	c 35	N84-17555 *	US-PATENT-CLASS-55-72	c 25	N80-23383 *
US-PATENT-CLASS-528-353	c 27	N91-15402 *	US-PATENT-CLASS-55-DIG.30	c 35	N84-17555 *	US-PATENT-CLASS-55-73	c 45	N79-12584 *
US-PATENT-CLASS-528-353	c 27	N91-15403 *	US-PATENT-CLASS-55-DIG.35	c 54	N75-27761 *	US-PATENT-CLASS-55-74	c 23	N77-17161 *
US-PATENT-CLASS-528-361	c 24	N84-11213 *	US-PATENT-CLASS-55-DIG.42	c 37	N85-29283 *	US-PATENT-CLASS-55-74	c 45	N91-14662 *
US-PATENT-CLASS-528-362	c 25	N81-14016 *	US-PATENT-CLASS-55-100	c 35	N78-12390 *	US-PATENT-CLASS-55-75	c 15	N71-26185 *
US-PATENT-CLASS-528-362	c 27	N81-17259 *	US-PATENT-CLASS-55-100	c 25	N78-25148 *	US-PATENT-CLASS-55-75	c 54	N91-31803 *
US-PATENT-CLASS-528-362	c 27	N81-17262 *	US-PATENT-CLASS-55-101	c 25	N78-25148 *	US-PATENT-CLASS-55-84	c 45	N91-14662 *
US-PATENT-CLASS-528-362	c 27	N82-24338 *	US-PATENT-CLASS-55-105	c 35	N84-17555 *	US-PATENT-CLASS-55-89	c 45	N91-14662 *
US-PATENT-CLASS-528-362	c 27	N84-22744 *	US-PATENT-CLASS-55-105	c 33	N90-20320 *	US-PATENT-CLASS-55-96	c 35	N84-17555 *
US-PATENT-CLASS-528-362	c 27	N84-27884 *	US-PATENT-CLASS-55-118	c 35	N79-17192 *	US-PATENT-CLASS-552-101	c 23	N91-17141 *
US-PATENT-CLASS-528-362	c 27	N87-21112 *	US-PATENT-CLASS-55-122	c 35	N79-17192 *	US-PATENT-CLASS-552-101	c 23	N91-25185 *
US-PATENT-CLASS-528-38	c 27	N83-34040 *	US-PATENT-CLASS-55-126	c 35	N84-17555 *	US-PATENT-CLASS-552-108	c 23	N91-25185 *
US-PATENT-CLASS-528-394	c 27	N84-22750 *	US-PATENT-CLASS-55-127	c 35	N79-17192 *	US-PATENT-CLASS-552-110	c 23	N91-25185 *
US-PATENT-CLASS-528-399	c 27	N81-27271 *	US-PATENT-CLASS-55-12	c 35	N84-17555 *	US-PATENT-CLASS-552-113	c 23	N91-25185 *
US-PATENT-CLASS-528-399	c 27	N82-18389 *	US-PATENT-CLASS-55-131	c 35	N84-17555 *	US-PATENT-CLASS-552-115	c 23	N91-25185 *
US-PATENT-CLASS-528-399	c 27	N84-22750 *	US-PATENT-CLASS-55-138	c 35	N84-17555 *	US-PATENT-CLASS-556-402	c 27	N90-21177 *
US-PATENT-CLASS-528-399	c 23	N86-32525 *	US-PATENT-CLASS-55-139	c 35	N84-17555 *	US-PATENT-CLASS-556-410	c 25	N85-21280 *
US-PATENT-CLASS-528-401	c 27	N79-22300 *	US-PATENT-CLASS-55-139	c 33	N90-20320 *	US-PATENT-CLASS-556-436	c 27	N86-21675 *
US-PATENT-CLASS-528-401	c 25	N81-14016 *	US-PATENT-CLASS-55-145	c 35	N84-17555 *	US-PATENT-CLASS-558-145	c 23	N87-28605 *
US-PATENT-CLASS-528-401	c 27	N81-17259 *	US-PATENT-CLASS-55-15-8	c 52	N79-14749 *	US-PATENT-CLASS-558-190	c 23	N87-28605 *
US-PATENT-CLASS-528-401	c 27	N81-17262 *	US-PATENT-CLASS-55-155	c 35	N79-17192 *	US-PATENT-CLASS-558-190	c 23	N90-20133 *
US-PATENT-CLASS-528-401	c 27	N82-24338 *	US-PATENT-CLASS-55-158	c 18	N71-20742 *	US-PATENT-CLASS-558-193	c 23	N87-28605 *
US-PATENT-CLASS-528-401	c 23	N82-28353 *	US-PATENT-CLASS-55-158	c 44	N77-22607 *	US-PATENT-CLASS-558-193	c 23	N90-23475 *
US-PATENT-CLASS-528-401	c 27	N84-22744 *	US-PATENT-CLASS-55-158	c 25	N82-21269 *	US-PATENT-CLASS-558-80	c 23	N88-24692 *
US-PATENT-CLASS-528-402	c 25	N82-24312 *	US-PATENT-CLASS-55-159	c 34	N74-30608 *	US-PATENT-CLASS-56-73	c 74	N86-26190 *
US-PATENT-CLASS-528-406	c 23	N86-32525 *	US-PATENT-CLASS-55-159	c 37	N79-21345 *	US-PATENT-CLASS-560-104	c 27	N87-16907 *
US-PATENT-CLASS-528-407	c 24	N84-34571 *	US-PATENT-CLASS-55-159	c 31	N90-20254 *	US-PATENT-CLASS-562-413	c 25	N90-23497 *
US-PATENT-CLASS-528-407	c 27	N85-34281 *	US-PATENT-CLASS-55-15	c 71	N83-35781 *	US-PATENT-CLASS-562-415	c 25	N90-23497 *
US-PATENT-CLASS-528-407	c 27	N85-34282 *	US-PATENT-CLASS-55-15	c 71	N85-22104 *	US-PATENT-CLASS-562-417	c 25	N90-23497 *
US-PATENT-CLASS-528-407	c 23	N86-32525 *	US-PATENT-CLASS-55-160	c 15	N71-15968 *	US-PATENT-CLASS-564-113	c 23	N86-19376 *
US-PATENT-CLASS-528-413	c 27	N87-24564 *	US-PATENT-CLASS-55-160	c 29	N90-20236 *	US-PATENT-CLASS-564-13	c 23	N88-24692 *
US-PATENT-CLASS-528-422	c 27	N79-22300 *	US-PATENT-CLASS-55-160	c 35	N90-22024 *	US-PATENT-CLASS-564-15	c 27	N86-32568 *
US-PATENT-CLASS-528-422	c 25	N81-14016 *	US-PATENT-CLASS-55-16	c 06	N72-31140 *	US-PATENT-CLASS-564-229	c 27	N81-24256 *
US-PATENT-CLASS-528-422	c 27	N81-17259 *	US-PATENT-CLASS-55-179	c 14	N71-17588 *	US-PATENT-CLASS-564-229	c 23	N82-28353 *
US-PATENT-CLASS-528-422	c 27	N81-17262 *	US-PATENT-CLASS-55-179	c 54	N77-32722 *	US-PATENT-CLASS-564-243	c 27	N84-22744 *
US-PATENT-CLASS-528-422	c 27	N82-24338 *	US-PATENT-CLASS-55-182	c 29	N90-20236 *	US-PATENT-CLASS-564-243	c 23	N86-21582 *
US-PATENT-CLASS-528-422	c 23	N82-28353 *	US-PATENT-CLASS-55-194	c 35	N83-29652 *	US-PATENT-CLASS-564-315	c 23	N89-12667 *
US-PATENT-CLASS-528-422	c 27	N84-22744 *	US-PATENT-CLASS-55-197	c 23	N77-17161 *	US-PATENT-CLASS-564-323	c 23	N89-12667 *
US-PATENT-CLASS-528-423	c 27	N81-17259 *	US-PATENT-CLASS-55-199	c 34	N74-30608 *	US-PATENT-CLASS-564-330	c 27	N87-22847 *
US-PATENT-CLASS-528-423	c 27	N84-22744 *	US-PATENT-CLASS-55-202	c 35	N83-29652 *	US-PATENT-CLASS-564-330	c 23	N89-12667 *
US-PATENT-CLASS-528-481	c 27	N80-24438 *	US-PATENT-CLASS-55-203	c 35	N90-22024 *	US-PATENT-CLASS-564-342	c 23	N89-12667 *
US-PATENT-CLASS-528-4	c 27	N81-27271 *	US-PATENT-CLASS-55-204	c 15	N71-23023 *	US-PATENT-CLASS-564-344	c 23	N89-12667 *
US-PATENT-CLASS-528-4	c 27	N82-18389 *	US-PATENT-CLASS-55-204	c 44	N83-10501 *	US-PATENT-CLASS-564-396	c 27	N87-22847 *
US-PATENT-CLASS-528-4	c 27	N88-29040 *	US-PATENT-CLASS-55-204	c 35	N90-22024 *	US-PATENT-CLASS-564-396	c 23	N89-12667 *
US-PATENT-CLASS-528-4	c 27	N90-21177 *	US-PATENT-CLASS-55-205	c 29	N90-20236 *	US-PATENT-CLASS-564-430	c 27	N87-22847 *
US-PATENT-CLASS-528-6	c 27	N81-27271 *	US-PATENT-CLASS-55-208	c 14	N71-18483 *	US-PATENT-CLASS-564-430	c 23	N89-12667 *
US-PATENT-CLASS-528-6	c 27	N82-18389 *	US-PATENT-CLASS-55-228	c 45	N91-14662 *	US-PATENT-CLASS-568-14	c 27	N86-32568 *
US-PATENT-CLASS-528-6	c 27	N84-22750 *	US-PATENT-CLASS-55-241	c 35	N79-17192 *	US-PATENT-CLASS-568-2	c 27	N82-18389 *
US-PATENT-CLASS-528-72	c 27	N89-16042 *	US-PATENT-CLASS-55-242	c 35	N79-17192 *	US-PATENT-CLASS-568-445	c 23	N82-16174 *
US-PATENT-CLASS-528-73	c 25	N80-16116 *	US-PATENT-CLASS-55-242	c 45	N91-14662 *	US-PATENT-CLASS-568-497	c 23	N82-16174 *
US-PATENT-CLASS-528-73	c 27	N89-16042 *	US-PATENT-CLASS-55-255	c 35	N86-29174 *	US-PATENT-CLASS-568-4	c 27	N82-18389 *
US-PATENT-CLASS-528-7	c 27	N82-18389 *	US-PATENT-CLASS-55-259	c 35	N86-29174 *	US-PATENT-CLASS-568-4	c 27	N84-22750 *
US-PATENT-CLASS-528-7	c 27	N84-22750 *	US-PATENT-CLASS-55-26-9	c 35	N78-12390 *	US-PATENT-CLASS-568-5	c 27	N82-18389 *
US-PATENT-CLASS-528-86	c 23	N85-28973 *	US-PATENT-CLASS-55-261	c 35	N76-18401 *	US-PATENT-CLASS-568-5	c 27	N84-22750 *
US-PATENT-CLASS-528-92	c 24	N84-34571 *	US-PATENT-CLASS-55-269	c 54	N77-32722 *	US-PATENT-CLASS-568-852	c 27	N80-32514 *
US-PATENT-CLASS-528-92	c 27	N85-34282 *	US-PATENT-CLASS-55-270	c 35	N84-17555 *	US-PATENT-CLASS-568-861	c 27	N80-32514 *
US-PATENT-CLASS-528-94	c 27	N85-34281 *	US-PATENT-CLASS-55-277	c 71	N83-35781 *	US-PATENT-CLASS-57-906	c 37	N82-18601 *
US-PATENT-CLASS-53-102	c 15	N71-21528 *	US-PATENT-CLASS-55-277	c 71	N85-22104 *	US-PATENT-CLASS-570-123	c 25	N82-24312 *
US-PATENT-CLASS-53-112A	c 15	N73-27405 *	US-PATENT-CLASS-55-283	c 35	N84-17555 *	US-PATENT-CLASS-570-129	c 25	N82-24312 *
US-PATENT-CLASS-53-22A	c 15	N73-27405 *	US-PATENT-CLASS-55-291	c 35	N84-17555 *	US-PATENT-CLASS-58-24	c 10	N71-26326 *
US-PATENT-CLASS-53-22	c 15	N71-23256 *	US-PATENT-CLASS-55-2	c 25	N78-25148 *	US-PATENT-CLASS-585-24	c 27	N86-21675 *
US-PATENT-CLASS-53-429	c 09	N82-29330 *	US-PATENT-CLASS-55-2	c 28	N81-14103 *	US-PATENT-CLASS-60-39.08	c 37	N79-11403 *
US-PATENT-CLASS-53-9	c 37	N77-23482 *	US-PATENT-CLASS-55-2	c 35	N84-17555 *	US-PATENT-CLASS-60-108	c 33	N71-16104 *
US-PATENT-CLASS-530-362	c 52	N90-20616 *	US-PATENT-CLASS-55-306	c 28	N70-34788 *	US-PATENT-CLASS-60-1	c 15	N72-33477 *
US-PATENT-CLASS-530-363	c 52	N90-20616 *	US-PATENT-CLASS-55-35	c 05	N70-41297 *	US-PATENT-CLASS-60-1	c 15	N73-13467 *
US-PATENT-CLASS-530-364	c 52	N90-20616 *	US-PATENT-CLASS-55-360	c 35	N79-17192 *	US-PATENT-CLASS-60-200A	c 33	N72-25911 *
US-PATENT-CLASS-530-387	c 52	N90-20616 *	US-PATENT-CLASS-55-386	c 35	N75-26334 *	US-PATENT-CLASS-60-200A	c 33	N73-25952 *
US-PATENT-CLASS-530-422	c 52	N90-20616 *	US-PATENT-CLASS-55-38	c 71	N83-35781 *	US-PATENT-CLASS-60-200A	c 27	N78-17206 *
US-PATENT-CLASS-536-105	c 27	N77-30236 *	US-PATENT-CLASS-55-3	c 35	N78-12390 *	US-PATENT-CLASS-60-200R	c 20	N82-18314 *
US-PATENT-CLASS-536-56	c 27	N77-30236 *	US-PATENT-CLASS-55-400	c 11	N71-10777 *	US-PATENT-CLASS-60-200	c 28	N71-14044 *
US-PATENT-CLASS-536-56	c 27	N77-30236 *	US-PATENT-CLASS-55-407	c 35	N79-17192 *	US-PATENT-CLASS-60-202	c 28	N70-41922 *
US-PATENT-CLASS-536-58	c 27	N77-30236 *	US-PATENT-CLASS-55-408	c 15	N70-40062 *	US-PATENT-CLASS-60-202	c 28	N71-10574 *

REPORT NUMBER INDEX

US-PATENT-CLASS-60-733

US-PATENT-CLASS-60-202	c 25	N71-21694 *	US-PATENT-CLASS-60-264	c 07	N80-32392 *	US-PATENT-CLASS-60-39.28R	c 37	N79-11403 *
US-PATENT-CLASS-60-202	c 28	N71-21822 *	US-PATENT-CLASS-60-264	c 20	N89-25279 *	US-PATENT-CLASS-60-39.281	c 20	N92-10054 *
US-PATENT-CLASS-60-202	c 28	N71-23081 *	US-PATENT-CLASS-60-265	c 28	N71-20942 *	US-PATENT-CLASS-60-39.29	c 20	N76-14190 *
US-PATENT-CLASS-60-202	c 28	N71-23293 *	US-PATENT-CLASS-60-265	c 33	N72-25911 *	US-PATENT-CLASS-60-39.29	c 35	N76-14431 *
US-PATENT-CLASS-60-202	c 28	N71-25213 *	US-PATENT-CLASS-60-265	c 33	N73-25952 *	US-PATENT-CLASS-60-39.29	c 07	N82-32366 *
US-PATENT-CLASS-60-202	c 28	N71-26173 *	US-PATENT-CLASS-60-265	c 20	N76-14191 *	US-PATENT-CLASS-60-39.29	c 07	N84-33410 *
US-PATENT-CLASS-60-202	c 28	N71-26642 *	US-PATENT-CLASS-60-266	c 30	N71-28852 *	US-PATENT-CLASS-60-39.31	c 07	N78-18066 *
US-PATENT-CLASS-60-202	c 28	N71-26781 *	US-PATENT-CLASS-60-266	c 28	N72-23810 *	US-PATENT-CLASS-60-39.31	c 07	N79-14096 *
US-PATENT-CLASS-60-202	c 28	N72-11709 *	US-PATENT-CLASS-60-267	c 33	N71-29053 *	US-PATENT-CLASS-60-39.33	c 44	N78-32539 *
US-PATENT-CLASS-60-202	c 28	N72-22770 *	US-PATENT-CLASS-60-267	c 33	N72-25911 *	US-PATENT-CLASS-60-39.36	c 28	N71-20330 *
US-PATENT-CLASS-60-202	c 28	N72-22771 *	US-PATENT-CLASS-60-267	c 33	N73-25952 *	US-PATENT-CLASS-60-39.36	c 28	N71-28915 *
US-PATENT-CLASS-60-202	c 28	N73-24783 *	US-PATENT-CLASS-60-267	c 28	N73-32606 *	US-PATENT-CLASS-60-39.46M	c 20	N82-18314 *
US-PATENT-CLASS-60-202	c 25	N73-25760 *	US-PATENT-CLASS-60-267	c 20	N76-14191 *	US-PATENT-CLASS-60-39.465	c 20	N86-26368 *
US-PATENT-CLASS-60-202	c 28	N73-27699 *	US-PATENT-CLASS-60-267	c 34	N79-13288 *	US-PATENT-CLASS-60-39.46	c 27	N71-15635 *
US-PATENT-CLASS-60-202	c 20	N77-10148 *	US-PATENT-CLASS-60-267	c 34	N79-13289 *	US-PATENT-CLASS-60-39.46	c 15	N74-27360 *
US-PATENT-CLASS-60-202	c 20	N77-20162 *	US-PATENT-CLASS-60-267	c 34	N80-24573 *	US-PATENT-CLASS-60-39.47	c 27	N71-16392 *
US-PATENT-CLASS-60-202	c 20	N85-21256 *	US-PATENT-CLASS-60-267	c 44	N81-24519 *	US-PATENT-CLASS-60-39.48	c 28	N70-38199 *
US-PATENT-CLASS-60-202	c 20	N89-25279 *	US-PATENT-CLASS-60-267	c 05	N81-26114 *	US-PATENT-CLASS-60-39.48	c 28	N70-39931 *
US-PATENT-CLASS-60-203.1	c 20	N86-26368 *	US-PATENT-CLASS-60-269	c 07	N83-33884 *	US-PATENT-CLASS-60-39.48	c 27	N71-28929 *
US-PATENT-CLASS-60-203.1	c 20	N87-16875 *	US-PATENT-CLASS-60-26	c 21	N72-31637 *	US-PATENT-CLASS-60-39.51R	c 25	N78-10224 *
US-PATENT-CLASS-60-203.1	c 09	N88-28939 *	US-PATENT-CLASS-60-26	c 03	N73-20040 *	US-PATENT-CLASS-60-39.52	c 07	N78-25089 *
US-PATENT-CLASS-60-203	c 20	N80-14188 *	US-PATENT-CLASS-60-271	c 28	N72-11708 *	US-PATENT-CLASS-60-39.65	c 28	N71-28915 *
US-PATENT-CLASS-60-204	c 07	N78-17055 *	US-PATENT-CLASS-60-271	c 28	N72-23810 *	US-PATENT-CLASS-60-39.65	c 23	N73-30665 *
US-PATENT-CLASS-60-204	c 07	N78-18067 *	US-PATENT-CLASS-60-271	c 07	N78-17055 *	US-PATENT-CLASS-60-39.65	c 34	N78-27357 *
US-PATENT-CLASS-60-204	c 44	N81-24519 *	US-PATENT-CLASS-60-271	c 37	N78-17384 *	US-PATENT-CLASS-60-39.66	c 15	N70-36411 *
US-PATENT-CLASS-60-204	c 20	N90-19298 *	US-PATENT-CLASS-60-271	c 07	N83-33884 *	US-PATENT-CLASS-60-39.66	c 23	N73-30665 *
US-PATENT-CLASS-60-204	c 20	N92-15122 *	US-PATENT-CLASS-60-275	c 35	N84-17555 *	US-PATENT-CLASS-60-39.66	c 07	N77-23106 *
US-PATENT-CLASS-60-211	c 28	N73-13773 *	US-PATENT-CLASS-60-291	c 31	N73-13898 *	US-PATENT-CLASS-60-39.66	c 37	N78-10467 *
US-PATENT-CLASS-60-214	c 15	N74-27360 *	US-PATENT-CLASS-60-300	c 28	N80-10374 *	US-PATENT-CLASS-60-39.66	c 37	N79-11403 *
US-PATENT-CLASS-60-215	c 06	N73-30097 *	US-PATENT-CLASS-60-303	c 35	N84-17555 *	US-PATENT-CLASS-60-39.69R	c 34	N78-27357 *
US-PATENT-CLASS-60-215	c 15	N74-27360 *	US-PATENT-CLASS-60-303	c 37	N84-33808 *	US-PATENT-CLASS-60-39.72	c 23	N73-30665 *
US-PATENT-CLASS-60-217	c 12	N71-17631 *	US-PATENT-CLASS-60-311	c 35	N84-17555 *	US-PATENT-CLASS-60-39.74A	c 15	N72-25455 *
US-PATENT-CLASS-60-225	c 28	N71-10780 *	US-PATENT-CLASS-60-316	c 34	N76-18364 *	US-PATENT-CLASS-60-39.74R	c 23	N73-30665 *
US-PATENT-CLASS-60-226A	c 07	N77-17059 *	US-PATENT-CLASS-60-35.3	c 28	N70-33265 *	US-PATENT-CLASS-60-39.74R	c 20	N76-14190 *
US-PATENT-CLASS-60-226A	c 07	N79-14096 *	US-PATENT-CLASS-60-35.3	c 28	N70-40367 *	US-PATENT-CLASS-60-39.74	c 28	N70-33241 *
US-PATENT-CLASS-60-226A	c 07	N79-14097 *	US-PATENT-CLASS-60-35.54	c 28	N70-34294 *	US-PATENT-CLASS-60-39.74	c 28	N72-17843 *
US-PATENT-CLASS-60-226A	c 07	N82-26293 *	US-PATENT-CLASS-60-35.54	c 28	N70-38645 *	US-PATENT-CLASS-60-39.74	c 20	N79-21125 *
US-PATENT-CLASS-60-226R	c 07	N78-18066 *	US-PATENT-CLASS-60-35.54	c 28	N71-29153 *	US-PATENT-CLASS-60-39.82E	c 20	N78-24275 *
US-PATENT-CLASS-60-226R	c 07	N77-14025 *	US-PATENT-CLASS-60-35.55	c 28	N70-34162 *	US-PATENT-CLASS-60-39.83	c 07	N84-33410 *
US-PATENT-CLASS-60-226R	c 07	N77-28118 *	US-PATENT-CLASS-60-35.55	c 28	N70-38711 *	US-PATENT-CLASS-60-39.48	c 28	N72-11709 *
US-PATENT-CLASS-60-226R	c 07	N78-17055 *	US-PATENT-CLASS-60-35.55	c 21	N71-15582 *	US-PATENT-CLASS-60-415	c 85	N87-21755 *
US-PATENT-CLASS-60-226R	c 07	N78-17056 *	US-PATENT-CLASS-60-35.55	c 15	N71-28951 *	US-PATENT-CLASS-60-508	c 44	N79-18443 *
US-PATENT-CLASS-60-226R	c 07	N78-25089 *	US-PATENT-CLASS-60-35.5	c 28	N70-33356 *	US-PATENT-CLASS-60-516	c 20	N75-24837 *
US-PATENT-CLASS-60-226R	c 07	N79-14096 *	US-PATENT-CLASS-60-35.5	c 28	N70-34175 *	US-PATENT-CLASS-60-516	c 44	N82-24640 *
US-PATENT-CLASS-60-226R	c 07	N81-19116 *	US-PATENT-CLASS-60-35.5	c 28	N70-36802 *	US-PATENT-CLASS-60-517	c 44	N76-29701 *
US-PATENT-CLASS-60-228	c 07	N77-17059 *	US-PATENT-CLASS-60-35.5	c 21	N70-36938 *	US-PATENT-CLASS-60-517	c 37	N81-25370 *
US-PATENT-CLASS-60-230	c 07	N78-27121 *	US-PATENT-CLASS-60-35.5	c 25	N70-36946 *	US-PATENT-CLASS-60-518	c 37	N81-14318 *
US-PATENT-CLASS-60-236	c 07	N81-19116 *	US-PATENT-CLASS-60-35.5	c 28	N70-37245 *	US-PATENT-CLASS-60-518	c 37	N81-17432 *
US-PATENT-CLASS-60-238	c 07	N81-19116 *	US-PATENT-CLASS-60-35.5	c 28	N70-37980 *	US-PATENT-CLASS-60-51	c 15	N71-27754 *
US-PATENT-CLASS-60-239	c 07	N81-19116 *	US-PATENT-CLASS-60-35.5	c 28	N71-14043 *	US-PATENT-CLASS-60-520	c 37	N80-33179 *
US-PATENT-CLASS-60-23	c 09	N71-26182 *	US-PATENT-CLASS-60-35.5	c 28	N71-15661 *	US-PATENT-CLASS-60-524	c 44	N81-17518 *
US-PATENT-CLASS-60-23	c 15	N72-12409 *	US-PATENT-CLASS-60-35.60	c 28	N71-15659 *	US-PATENT-CLASS-60-525	c 37	N81-25370 *
US-PATENT-CLASS-60-23	c 21	N72-31637 *	US-PATENT-CLASS-60-35.6	c 28	N70-33284 *	US-PATENT-CLASS-60-527	c 44	N74-33379 *
US-PATENT-CLASS-60-23	c 15	N73-13467 *	US-PATENT-CLASS-60-35.6	c 28	N70-33331 *	US-PATENT-CLASS-60-527	c 37	N77-12402 *
US-PATENT-CLASS-60-240	c 28	N71-24736 *	US-PATENT-CLASS-60-35.6	c 28	N70-33374 *	US-PATENT-CLASS-60-527	c 37	N77-19458 *
US-PATENT-CLASS-60-240	c 28	N73-13773 *	US-PATENT-CLASS-60-35.6	c 28	N70-33375 *	US-PATENT-CLASS-60-527	c 37	N78-31426 *
US-PATENT-CLASS-60-240	c 07	N80-18039 *	US-PATENT-CLASS-60-35.6	c 28	N70-34860 *	US-PATENT-CLASS-60-527	c 37	N86-19604 *
US-PATENT-CLASS-60-240	c 20	N92-10054 *	US-PATENT-CLASS-60-35.6	c 28	N70-35381 *	US-PATENT-CLASS-60-527	c 35	N88-29151 *
US-PATENT-CLASS-60-240	c 20	N92-15122 *	US-PATENT-CLASS-60-35.6	c 27	N70-35534 *	US-PATENT-CLASS-60-528	c 37	N86-19604 *
US-PATENT-CLASS-60-243	c 33	N71-21507 *	US-PATENT-CLASS-60-35.6	c 15	N70-36535 *	US-PATENT-CLASS-60-530	c 20	N75-24837 *
US-PATENT-CLASS-60-243	c 15	N71-27432 *	US-PATENT-CLASS-60-35.6	c 28	N70-36806 *	US-PATENT-CLASS-60-53	c 37	N77-22479 *
US-PATENT-CLASS-60-243	c 28	N73-13773 *	US-PATENT-CLASS-60-35.6	c 28	N70-36910 *	US-PATENT-CLASS-60-54.5	c 15	N71-10658 *
US-PATENT-CLASS-60-243	c 20	N79-21124 *	US-PATENT-CLASS-60-35.6	c 28	N70-38249 *	US-PATENT-CLASS-60-560	c 35	N78-10428 *
US-PATENT-CLASS-60-243	c 20	N92-15122 *	US-PATENT-CLASS-60-35.6	c 28	N70-38504 *	US-PATENT-CLASS-60-572	c 44	N79-18443 *
US-PATENT-CLASS-60-251	c 28	N70-41311 *	US-PATENT-CLASS-60-35.6	c 28	N70-38505 *	US-PATENT-CLASS-60-574	c 35	N78-10428 *
US-PATENT-CLASS-60-251	c 27	N71-21819 *	US-PATENT-CLASS-60-35.6	c 28	N70-38710 *	US-PATENT-CLASS-60-606	c 28	N80-10374 *
US-PATENT-CLASS-60-254	c 28	N72-20758 *	US-PATENT-CLASS-60-35.6	c 28	N70-39899 *	US-PATENT-CLASS-60-606	c 37	N84-33808 *
US-PATENT-CLASS-60-254	c 28	N73-24784 *	US-PATENT-CLASS-60-35.6	c 33	N71-15623 *	US-PATENT-CLASS-60-632	c 20	N80-18097 *
US-PATENT-CLASS-60-256	c 28	N73-24784 *	US-PATENT-CLASS-60-35.6	c 27	N71-15634 *	US-PATENT-CLASS-60-634	c 37	N87-23983 *
US-PATENT-CLASS-60-257	c 31	N70-41948 *	US-PATENT-CLASS-60-35.6	c 31	N71-15637 *	US-PATENT-CLASS-60-638	c 37	N87-23983 *
US-PATENT-CLASS-60-258	c 15	N70-22192 *	US-PATENT-CLASS-60-35.6	c 31	N71-15647 *	US-PATENT-CLASS-60-641.12	c 44	N84-23018 *
US-PATENT-CLASS-60-258	c 28	N71-22983 *	US-PATENT-CLASS-60-35.6	c 28	N71-15660 *	US-PATENT-CLASS-60-641.14	c 44	N82-24640 *
US-PATENT-CLASS-60-258	c 28	N71-28849 *	US-PATENT-CLASS-60-35.6	c 14	N71-27186 *	US-PATENT-CLASS-60-641	c 44	N75-32581 *
US-PATENT-CLASS-60-258	c 28	N72-17843 *	US-PATENT-CLASS-60-36	c 15	N72-33477 *	US-PATENT-CLASS-60-641	c 44	N77-32582 *
US-PATENT-CLASS-60-258	c 15	N72-25455 *	US-PATENT-CLASS-60-37	c 15	N73-13467 *	US-PATENT-CLASS-60-641	c 44	N78-17460 *
US-PATENT-CLASS-60-258	c 20	N74-13502 *	US-PATENT-CLASS-60-39.02	c 07	N86-20389 *	US-PATENT-CLASS-60-641	c 44	N78-32542 *
US-PATENT-CLASS-60-258	c 20	N87-14420 *	US-PATENT-CLASS-60-39.03	c 07	N77-23106 *	US-PATENT-CLASS-60-641	c 44	N79-18443 *
US-PATENT-CLASS-60-258	c 20	N92-10054 *	US-PATENT-CLASS-60-39.03	c 07	N80-18039 *	US-PATENT-CLASS-60-641	c 44	N81-17518 *
US-PATENT-CLASS-60-259	c 28	N70-41275 *	US-PATENT-CLASS-60-39.06	c 07	N80-26298 *	US-PATENT-CLASS-60-645	c 34	N79-20335 *
US-PATENT-CLASS-60-259	c 20	N74-13502 *	US-PATENT-CLASS-60-39.06	c 07	N81-29129 *	US-PATENT-CLASS-60-649	c 34	N79-20335 *
US-PATENT-CLASS-60-259	c 34	N77-30399 *	US-PATENT-CLASS-60-39.07	c 44	N78-32539 *	US-PATENT-CLASS-60-659	c 44	N75-32581 *
US-PATENT-CLASS-60-259	c 20	N80-14188 *	US-PATENT-CLASS-60-39.07	c 07	N82-32366 *	US-PATENT-CLASS-60-659	c 44	N76-31667 *
US-PATENT-CLASS-60-259	c 05	N81-26114 *	US-PATENT-CLASS-60-39.07	c 07	N83-36029 *	US-PATENT-CLASS-60-671	c 44	N78-32542 *
US-PATENT-CLASS-60-259	c 20	N90-19298 *	US-PATENT-CLASS-60-39.07	c 07	N86-20389 *	US-PATENT-CLASS-60-698	c 44	N84-23018 *
US-PATENT-CLASS-60-259	c 20	N92-15122 *	US-PATENT-CLASS-60-39.12	c 28	N91-14495 *	US-PATENT-CLASS-60-716	c 44	N84-23018 *
US-PATENT-CLASS-60-25	c 15	N73-24513 *	US-PATENT-CLASS-60-39.14	c 44	N78-32539 *	US-PATENT-CLASS-60-721	c 71	N79-20827 *
US-PATENT-CLASS-60-25	c 37	N74-21060 *	US-PATENT-CLASS-60-39.14	c 07	N79-10057 *	US-PATENT-CLASS-60-721	c 71	N83-32515 *
US-PATENT-CLASS-60-260	c 28	N70-41992 *	US-PATENT-CLASS-60-39.182	c 28	N91-14495 *	US-PATENT-CLASS-60-721	c 71	N83-32516 *
US-PATENT-CLASS-60-260	c 28	N72-18766 *	US-PATENT-CLASS-60-39.23	c 20	N76-14190 *	US-PATENT-CLASS-60-721	c 71	N84-23233 *
US-PATENT-CLASS-60-260	c 20	N90-19298 *	US-PATENT-CLASS-60-39.23	c 07	N85-35195 *	US-PATENT-CLASS-60-726	c 07	N81-29129 *
US-PATENT-CLASS-60-261	c 37	N78-17384 *	US-PATENT-CLASS-60-39.24	c 07	N81-19115 *	US-PATENT-CLASS-60-726	c 07	N82-32366 *
US-PATENT-CLASS-60-262	c 37	N78-17384 *	US-PATENT-CLASS-60-39.27	c 07	N80-18039 *	US-PATENT-CLASS-60-730	c 05	N81-26114 *
US-PATENT-CLASS-60-262	c 07	N78-18067 *	US-PATENT-CLASS-60-39.28R	c 28	N73-19793 *	US-PATENT-CLASS-60-730	c 37	N84-22958 *
US-PATENT-CLASS-60-262	c 07	N83-33884 *	US-PATENT-CLASS-60-39.28R	c 07	N77-23106 *	US-PATENT-CLASS-60-730	c 25	N90-11824 *
US-PATENT-CLASS-60-263	c 28	N71-24321 *	US-PATENT-CLASS-60-39.28R	c 37	N78-10467 *	US-PATENT-CLASS-60-732	c 25	N90-11824 *
US-PATENT-CLASS-60-263	c 07	N77-28118 *	US-PATENT-CLASS-60-39.28R	c 37	N78-24545 *	US-PATENT-CLASS-60-733	c 07	N80-26298 *

US-PATENT-CLASS-60-736	c 37	N84-22958 *	US-PATENT-CLASS-62-514 R	c 35	N83-32026 *	US-PATENT-CLASS-65-87	c 71	N78-10837 *
US-PATENT-CLASS-60-736	c 07	N86-20389 *	US-PATENT-CLASS-62-514-JT	c 31	N89-14351 *	US-PATENT-CLASS-6554	c 35	N77-24455 *
US-PATENT-CLASS-60-737	c 07	N81-29129 *	US-PATENT-CLASS-62-514-R	c 31	N87-21159 *	US-PATENT-CLASS-6564	c 35	N77-24455 *
US-PATENT-CLASS-60-746	c 07	N80-26298 *	US-PATENT-CLASS-62-514-R	c 37	N87-23982 *	US-PATENT-CLASS-70-58	c 33	N81-25299 *
US-PATENT-CLASS-60-746	c 20	N87-14420 *	US-PATENT-CLASS-62-514-R	c 31	N89-12785 *	US-PATENT-CLASS-71-98	c 51	N83-17045 *
US-PATENT-CLASS-60-748	c 07	N85-35195 *	US-PATENT-CLASS-62-514JT	c 31	N77-10229 *	US-PATENT-CLASS-72-253	c 15	N71-22797 *
US-PATENT-CLASS-60-757	c 07	N84-24577 *	US-PATENT-CLASS-62-514R	c 35	N78-12390 *	US-PATENT-CLASS-72-258	c 15	N73-13464 *
US-PATENT-CLASS-60-836	c 04	N78-14096 *	US-PATENT-CLASS-62-514R	c 31	N78-17237 *	US-PATENT-CLASS-72-307	c 15	N72-12408 *
US-PATENT-CLASS-60-97	c 23	N71-12260 *	US-PATENT-CLASS-62-514R	c 31	N78-25256 *	US-PATENT-CLASS-72-324	c 71	N86-21276 *
US-PATENT-CLASS-60-114	c 52	N83-27577 *	US-PATENT-CLASS-62-514R	c 51	N79-10694 *	US-PATENT-CLASS-72-341	c 71	N86-21276 *
US-PATENT-CLASS-60-151	c 52	N83-27577 *	US-PATENT-CLASS-62-514R	c 31	N79-17029 *	US-PATENT-CLASS-72-34	c 15	N71-21536 *
US-PATENT-CLASS-60-280	c 52	N83-21785 *	US-PATENT-CLASS-62-514R	c 34	N79-20336 *	US-PATENT-CLASS-72-354	c 15	N71-23811 *
US-PATENT-CLASS-60-368	c 54	N84-11758 *	US-PATENT-CLASS-62-514R	c 35	N81-14287 *	US-PATENT-CLASS-72-363	c 37	N76-14461 *
US-PATENT-CLASS-60-378	c 54	N84-11758 *	US-PATENT-CLASS-62-514R	c 31	N83-31897 *	US-PATENT-CLASS-72-364	c 15	N71-18579 *
US-PATENT-CLASS-60-396	c 54	N84-11758 *	US-PATENT-CLASS-62-514R	c 34	N83-34221 *	US-PATENT-CLASS-72-369	c 15	N71-24679 *
US-PATENT-CLASS-60-4	c 52	N83-21785 *	US-PATENT-CLASS-62-514R	c 31	N88-14223 *	US-PATENT-CLASS-72-436	c 37	N79-28550 *
US-PATENT-CLASS-61-83	c 18	N74-22136 *	US-PATENT-CLASS-62-514	c 23	N71-26654 *	US-PATENT-CLASS-72-447	c 15	N73-13463 *
US-PATENT-CLASS-62-DIG.1	c 34	N84-22903 *	US-PATENT-CLASS-62-51	c 15	N72-17453 *	US-PATENT-CLASS-72-451	c 37	N79-28550 *
US-PATENT-CLASS-62-DIG.5	c 05	N81-26114 *	US-PATENT-CLASS-62-55.5	c 11	N71-24964 *	US-PATENT-CLASS-72-453	c 37	N76-18454 *
US-PATENT-CLASS-62-100	c 34	N77-19353 *	US-PATENT-CLASS-62-55.5	c 15	N72-22484 *	US-PATENT-CLASS-72-467	c 15	N71-23817 *
US-PATENT-CLASS-62-100	c 28	N78-24365 *	US-PATENT-CLASS-62-55	c 15	N70-38020 *	US-PATENT-CLASS-72-46	c 24	N75-33181 *
US-PATENT-CLASS-62-121	c 34	N77-19353 *	US-PATENT-CLASS-62-55	c 34	N77-30399 *	US-PATENT-CLASS-72-470	c 37	N79-28550 *
US-PATENT-CLASS-62-128	c 35	N84-28018 *	US-PATENT-CLASS-62-56	c 05	N72-11084 *	US-PATENT-CLASS-72-476	c 15	N73-13463 *
US-PATENT-CLASS-62-129	c 31	N76-14284 *	US-PATENT-CLASS-62-62	c 34	N83-34221 *	US-PATENT-CLASS-72-53	c 15	N71-18616 *
US-PATENT-CLASS-62-12	c 28	N81-14103 *	US-PATENT-CLASS-62-6	c 15	N69-23190 *	US-PATENT-CLASS-72-53	c 15	N73-32360 *
US-PATENT-CLASS-62-148	c 44	N82-26776 *	US-PATENT-CLASS-62-6	c 23	N71-15467 *	US-PATENT-CLASS-72-54	c 37	N76-14461 *
US-PATENT-CLASS-62-15	c 06	N70-34946 *	US-PATENT-CLASS-62-6	c 15	N71-23025 *	US-PATENT-CLASS-72-56	c 15	N70-34249 *
US-PATENT-CLASS-62-176	c 05	N73-26071 *	US-PATENT-CLASS-62-6	c 23	N72-25619 *	US-PATENT-CLASS-72-56	c 15	N71-24833 *
US-PATENT-CLASS-62-18	c 28	N81-14103 *	US-PATENT-CLASS-62-6	c 37	N76-29590 *	US-PATENT-CLASS-72-56	c 15	N71-24865 *
US-PATENT-CLASS-62-207	c 05	N73-26071 *	US-PATENT-CLASS-62-6	c 44	N76-29701 *	US-PATENT-CLASS-72-56	c 15	N71-26148 *
US-PATENT-CLASS-62-209	c 05	N73-26071 *	US-PATENT-CLASS-62-6	c 44	N83-28574 *	US-PATENT-CLASS-72-60	c 15	N71-24836 *
US-PATENT-CLASS-62-217	c 31	N77-10229 *	US-PATENT-CLASS-62-6	c 31	N85-21404 *	US-PATENT-CLASS-72-61	c 15	N71-26346 *
US-PATENT-CLASS-62-235.1	c 44	N82-26776 *	US-PATENT-CLASS-62-78	c 51	N79-10694 *	US-PATENT-CLASS-72-63	c 20	N75-18310 *
US-PATENT-CLASS-62-238.3	c 44	N82-26776 *	US-PATENT-CLASS-62-7	c 15	N73-12486 *	US-PATENT-CLASS-72-63	c 37	N76-14461 *
US-PATENT-CLASS-62-239	c 44	N82-26776 *	US-PATENT-CLASS-62-80	c 23	N72-25619 *	US-PATENT-CLASS-72-750	c 35	N88-24927 *
US-PATENT-CLASS-62-244	c 44	N82-26776 *	US-PATENT-CLASS-62-85	c 23	N72-25619 *	US-PATENT-CLASS-72-83	c 15	N71-22723 *
US-PATENT-CLASS-62-259	c 05	N73-20137 *	US-PATENT-CLASS-62-89	c 05	N73-26071 *	US-PATENT-CLASS-73-DIG.11	c 35	N78-18390 *
US-PATENT-CLASS-62-259	c 05	N73-20137 *	US-PATENT-CLASS-62-90	c 34	N91-21473 *	US-PATENT-CLASS-73-1-DV	c 71	N86-21276 *
US-PATENT-CLASS-62-259	c 05	N73-20137 *	US-PATENT-CLASS-62-93	c 15	N69-21465 *	US-PATENT-CLASS-73-1-DV	c 71	N87-21653 *
US-PATENT-CLASS-62-259	c 54	N78-32721 *	US-PATENT-CLASS-62-93	c 03	N72-28025 *	US-PATENT-CLASS-73-1B	c 35	N76-24523 *
US-PATENT-CLASS-62-264	c 34	N84-22903 *	US-PATENT-CLASS-62-93	c 77	N75-20139 *	US-PATENT-CLASS-73-1B	c 35	N84-28019 *
US-PATENT-CLASS-62-268	c 14	N71-20427 *	US-PATENT-CLASS-62-93	c 54	N91-32795 *	US-PATENT-CLASS-73-1DV	c 14	N73-27379 *
US-PATENT-CLASS-62-268	c 34	N79-20336 *	US-PATENT-CLASS-62-93	c 54	N91-32795 *	US-PATENT-CLASS-73-1F	c 35	N74-21019 *
US-PATENT-CLASS-62-269	c 34	N77-19353 *	US-PATENT-CLASS-62-93	c 31	N92-15203 *	US-PATENT-CLASS-73-1R	c 14	N71-29134 *
US-PATENT-CLASS-62-285	c 77	N75-20139 *	US-PATENT-CLASS-62-93	c 31	N92-15203 *	US-PATENT-CLASS-73-1R	c 35	N75-15932 *
US-PATENT-CLASS-62-288	c 77	N75-20139 *	US-PATENT-CLASS-62-93	c 31	N92-15203 *	US-PATENT-CLASS-73-1R	c 35	N76-15432 *
US-PATENT-CLASS-62-289	c 77	N75-20139 *	US-PATENT-CLASS-62-93	c 31	N92-15203 *	US-PATENT-CLASS-73-100	c 15	N70-41993 *
US-PATENT-CLASS-62-290	c 77	N75-20139 *	US-PATENT-CLASS-62-93	c 15	N71-28467 *	US-PATENT-CLASS-73-100	c 32	N72-25877 *
US-PATENT-CLASS-62-295	c 35	N83-32026 *	US-PATENT-CLASS-62-93	c 15	N71-28959 *	US-PATENT-CLASS-73-103	c 15	N71-17696 *
US-PATENT-CLASS-62-2	c 15	N71-15096 *	US-PATENT-CLASS-62-93	c 15	N69-27505 *	US-PATENT-CLASS-73-103	c 14	N72-27412 *
US-PATENT-CLASS-62-315	c 34	N77-19353 *	US-PATENT-CLASS-62-93	c 37	N74-21063 *	US-PATENT-CLASS-73-103	c 14	N73-32323 *
US-PATENT-CLASS-62-317	c 77	N75-20139 *	US-PATENT-CLASS-62-93	c 71	N78-10837 *	US-PATENT-CLASS-73-103	c 35	N76-18400 *
US-PATENT-CLASS-62-333	c 34	N91-21473 *	US-PATENT-CLASS-62-93	c 71	N78-10837 *	US-PATENT-CLASS-73-104	c 35	N74-32879 *
US-PATENT-CLASS-62-336	c 31	N78-17237 *	US-PATENT-CLASS-62-93	c 71	N78-10837 *	US-PATENT-CLASS-73-105	c 14	N70-34161 *
US-PATENT-CLASS-62-376	c 34	N79-20336 *	US-PATENT-CLASS-62-93	c 35	N77-24455 *	US-PATENT-CLASS-73-105	c 14	N71-17586 *
US-PATENT-CLASS-62-383	c 33	N82-24419 *	US-PATENT-CLASS-62-93	c 31	N86-21718 *	US-PATENT-CLASS-73-115	c 35	N79-14345 *
US-PATENT-CLASS-62-384	c 23	N71-24725 *	US-PATENT-CLASS-62-93	c 31	N86-21718 *	US-PATENT-CLASS-73-115	c 07	N84-22559 *
US-PATENT-CLASS-62-384	c 31	N87-21159 *	US-PATENT-CLASS-62-93	c 71	N83-35781 *	US-PATENT-CLASS-73-116	c 11	N70-33278 *
US-PATENT-CLASS-62-384	c 34	N91-21473 *	US-PATENT-CLASS-62-93	c 27	N87-21111 *	US-PATENT-CLASS-73-116	c 11	N70-34844 *
US-PATENT-CLASS-62-3	c 20	N75-24837 *	US-PATENT-CLASS-62-93	c 27	N87-21111 *	US-PATENT-CLASS-73-116	c 14	N70-40203 *
US-PATENT-CLASS-62-3	c 34	N78-17335 *	US-PATENT-CLASS-62-93	c 27	N87-21111 *	US-PATENT-CLASS-73-116	c 11	N70-41677 *
US-PATENT-CLASS-62-3	c 34	N83-29625 *	US-PATENT-CLASS-62-93	c 31	N81-33319 *	US-PATENT-CLASS-73-116	c 11	N71-10604 *
US-PATENT-CLASS-62-3	c 31	N85-29082 *	US-PATENT-CLASS-62-93	c 27	N82-28442 *	US-PATENT-CLASS-73-116	c 31	N71-15643 *
US-PATENT-CLASS-62-40	c 15	N71-24044 *	US-PATENT-CLASS-62-93	c 31	N83-31896 *	US-PATENT-CLASS-73-117.1	c 11	N72-27262 *
US-PATENT-CLASS-62-40	c 28	N81-14103 *	US-PATENT-CLASS-62-93	c 31	N83-35176 *	US-PATENT-CLASS-73-117.1	c 09	N84-27749 *
US-PATENT-CLASS-62-45	c 15	N70-33323 *	US-PATENT-CLASS-62-93	c 71	N84-28568 *	US-PATENT-CLASS-73-117.4	c 14	N71-20429 *
US-PATENT-CLASS-62-45	c 31	N70-41871 *	US-PATENT-CLASS-62-93	c 26	N86-32551 *	US-PATENT-CLASS-73-117.4	c 28	N71-27094 *
US-PATENT-CLASS-62-45	c 33	N71-25351 *	US-PATENT-CLASS-62-93	c 71	N84-28568 *	US-PATENT-CLASS-73-117.4	c 35	N75-29382 *
US-PATENT-CLASS-62-45	c 33	N71-28892 *	US-PATENT-CLASS-62-93	c 31	N86-21718 *	US-PATENT-CLASS-73-117	c 14	N71-22965 *
US-PATENT-CLASS-62-45	c 15	N73-12486 *	US-PATENT-CLASS-62-93	c 26	N86-32551 *	US-PATENT-CLASS-73-12	c 14	N71-23225 *
US-PATENT-CLASS-62-45	c 35	N74-15093 *	US-PATENT-CLASS-62-93	c 31	N83-35176 *	US-PATENT-CLASS-73-12	c 14	N71-26161 *
US-PATENT-CLASS-62-45	c 31	N89-29578 *	US-PATENT-CLASS-62-93	c 71	N84-28568 *	US-PATENT-CLASS-73-12	c 14	N72-16282 *
US-PATENT-CLASS-62-461	c 31	N92-15203 *	US-PATENT-CLASS-62-93	c 31	N81-33319 *	US-PATENT-CLASS-73-12	c 14	N72-25411 *
US-PATENT-CLASS-62-467R	c 34	N84-22903 *	US-PATENT-CLASS-62-93	c 27	N82-28442 *	US-PATENT-CLASS-73-12	c 14	N73-32327 *
US-PATENT-CLASS-62-467	c 33	N70-37979 *	US-PATENT-CLASS-62-93	c 31	N83-35176 *	US-PATENT-CLASS-73-12	c 35	N74-21062 *
US-PATENT-CLASS-62-467	c 33	N71-17897 *	US-PATENT-CLASS-62-93	c 71	N84-28568 *	US-PATENT-CLASS-73-12	c 35	N75-33367 *
US-PATENT-CLASS-62-467	c 05	N72-11084 *	US-PATENT-CLASS-62-93	c 31	N91-32240 *	US-PATENT-CLASS-73-12	c 75	N76-14931 *
US-PATENT-CLASS-62-467	c 33	N72-25911 *	US-PATENT-CLASS-62-93	c 71	N84-16940 *	US-PATENT-CLASS-73-12	c 35	N77-18417 *
US-PATENT-CLASS-62-467	c 33	N73-25952 *	US-PATENT-CLASS-62-93	c 31	N83-31896 *	US-PATENT-CLASS-73-12	c 43	N79-25443 *
US-PATENT-CLASS-62-467	c 20	N75-24837 *	US-PATENT-CLASS-62-93	c 31	N81-33319 *	US-PATENT-CLASS-73-12	c 43	N80-14423 *
US-PATENT-CLASS-62-467	c 31	N88-14223 *	US-PATENT-CLASS-62-93	c 27	N82-28442 *	US-PATENT-CLASS-73-12	c 43	N80-23711 *
US-PATENT-CLASS-62-467	c 31	N89-12785 *	US-PATENT-CLASS-62-93	c 31	N83-31896 *	US-PATENT-CLASS-73-12	c 37	N84-33807 *
US-PATENT-CLASS-62-467	c 31	N89-14351 *	US-PATENT-CLASS-62-93	c 31	N83-35176 *	US-PATENT-CLASS-73-133R	c 35	N77-14407 *
US-PATENT-CLASS-62-467	c 31	N90-21215 *	US-PATENT-CLASS-62-93	c 71	N78-10837 *	US-PATENT-CLASS-73-133	c 14	N71-23725 *
US-PATENT-CLASS-62-475	c 23	N72-25619 *	US-PATENT-CLASS-62-93	c 31	N86-21718 *	US-PATENT-CLASS-73-133	c 15	N72-22482 *
US-PATENT-CLASS-62-476	c 44	N82-26776 *	US-PATENT-CLASS-62-93	c 27	N87-21111 *	US-PATENT-CLASS-73-134	c 14	N70-40201 *
US-PATENT-CLASS-62-47	c 28	N81-14103 *	US-PATENT-CLASS-62-93	c 27	N78-32260 *	US-PATENT-CLASS-73-136R	c 15	N72-26371 *
US-PATENT-CLASS-62-48	c 28	N78-24365 *	US-PATENT-CLASS-62-93	c 71	N78-10837 *	US-PATENT-CLASS-73-136	c 14	N70-34818 *
US-PATENT-CLASS-62-48	c 31	N83-31897 *	US-PATENT-CLASS-62-93	c 37	N75-26371 *	US-PATENT-CLASS-73-140	c 11	N72-25288 *
US-PATENT-CLASS-62-48	c 31	N87-21159 *	US-PATENT-CLASS-62-93	c 71	N78-10837 *	US-PATENT-CLASS-73-141AB	c 14	N72-33377 *
US-PATENT-CLASS-62-48	c 31	N88-14223 *	US-PATENT-CLASS-62-93	c 37	N75-15992 *	US-PATENT-CLASS-73-141A	c 14	N72-21405 *
US-PATENT-CLASS-62-48	c 31	N89-29578 *	US-PATENT-CLASS-62-93	c 24	N79-25143 *	US-PATENT-CLASS-73-141A	c 14	N72-22437 *
US-PATENT-CLASS-62-49	c 31	N76-14284 *	US-PATENT-CLASS-62-93	c 35	N77-24455 *	US-PATENT-CLASS-73-141A	c 35	N74-26945 *
US-PATENT-CLASS-62-4	c 44	N77-32581 *	US-PATENT-CLASS-62-93	c 27	N78-32260 *	US-PATENT-CLASS-73-141A	c 35	N74-27865 *
US-PATENT-CLASS-62-4	c 44	N78-17460 *	US-PATENT-CLASS-62-93	c 74	N80-24149 *	US-PATENT-CLASS-73-141A	c 35	N75-33369 *
US-PATENT-CLASS-62-50	c 15	N70-34247 *	US-PATENT-CLASS-62-93	c 18	N71-23088 *	US-PATENT-CLASS-73-141A	c 52	N81-20703 *
US-PATENT-CLASS-62-50	c 35	N78-12390 *						

REPORT NUMBER INDEX

US-PATENT-CLASS-73-421.5R

US-PATENT-CLASS-73-141	c 14	N70-41957 *	US-PATENT-CLASS-73-15	c 11	N71-24985 *	US-PATENT-CLASS-73-23.1	c 06	N69-39936 *
US-PATENT-CLASS-73-141	c 15	N71-20441 *	US-PATENT-CLASS-73-15	c 11	N71-28629 *	US-PATENT-CLASS-73-23.1	c 06	N72-17094 *
US-PATENT-CLASS-73-141	c 14	N71-23790 *	US-PATENT-CLASS-73-161	c 11	N72-25288 *	US-PATENT-CLASS-73-23.1	c 06	N72-25146 *
US-PATENT-CLASS-73-141	c 26	N71-25490 *	US-PATENT-CLASS-73-167	c 15	N84-16231 *	US-PATENT-CLASS-73-23.1	c 25	N76-18245 *
US-PATENT-CLASS-73-142	c 15	N70-40180 *	US-PATENT-CLASS-73-167	c 25	N91-32196 *	US-PATENT-CLASS-73-23.1	c 23	N77-17161 *
US-PATENT-CLASS-73-142	c 14	N71-20439 *	US-PATENT-CLASS-73-170A	c 35	N78-27384 *	US-PATENT-CLASS-73-23	c 14	N71-10774 *
US-PATENT-CLASS-73-143	c 35	N75-19615 *	US-PATENT-CLASS-73-170A	c 48	N80-18667 *	US-PATENT-CLASS-73-23	c 05	N71-11202 *
US-PATENT-CLASS-73-143	c 14	N75-24794 *	US-PATENT-CLASS-73-170R	c 07	N73-20175 *	US-PATENT-CLASS-73-23	c 52	N74-20728 *
US-PATENT-CLASS-73-144	c 15	N71-22878 *	US-PATENT-CLASS-73-170R	c 14	N73-28487 *	US-PATENT-CLASS-73-23	c 35	N75-29380 *
US-PATENT-CLASS-73-147	c 11	N70-33287 *	US-PATENT-CLASS-73-170R	c 14	N73-32327 *	US-PATENT-CLASS-73-23	c 25	N78-15210 *
US-PATENT-CLASS-73-147	c 14	N70-33386 *	US-PATENT-CLASS-73-170R	c 33	N74-27862 *	US-PATENT-CLASS-73-23	c 35	N78-19465 *
US-PATENT-CLASS-73-147	c 14	N70-34813 *	US-PATENT-CLASS-73-170R	c 35	N75-33367 *	US-PATENT-CLASS-73-24	c 06	N69-39733 *
US-PATENT-CLASS-73-147	c 11	N70-36913 *	US-PATENT-CLASS-73-170R	c 91	N76-30131 *	US-PATENT-CLASS-73-28	c 14	N73-27376 *
US-PATENT-CLASS-73-147	c 14	N70-40400 *	US-PATENT-CLASS-73-170R	c 06	N83-10040 *	US-PATENT-CLASS-73-28	c 14	N73-30395 *
US-PATENT-CLASS-73-147	c 14	N70-41366 *	US-PATENT-CLASS-73-170R	c 35	N84-28018 *	US-PATENT-CLASS-73-28	c 35	N76-18401 *
US-PATENT-CLASS-73-147	c 11	N71-15926 *	US-PATENT-CLASS-73-170R	c 19	N91-14412 *	US-PATENT-CLASS-73-28	c 35	N78-18390 *
US-PATENT-CLASS-73-147	c 09	N71-16086 *	US-PATENT-CLASS-73-170	c 14	N71-14996 *	US-PATENT-CLASS-73-290-R	c 35	N88-29150 *
US-PATENT-CLASS-73-147	c 12	N71-20436 *	US-PATENT-CLASS-73-170	c 17	N73-32415 *	US-PATENT-CLASS-73-290-V	c 35	N89-14407 *
US-PATENT-CLASS-73-147	c 09	N71-20816 *	US-PATENT-CLASS-73-178-R	c 06	N84-34443 *	US-PATENT-CLASS-73-290B	c 14	N72-11363 *
US-PATENT-CLASS-73-147	c 11	N71-21481 *	US-PATENT-CLASS-73-178-R	c 06	N87-22678 *	US-PATENT-CLASS-73-290	c 14	N71-10500 *
US-PATENT-CLASS-73-147	c 11	N71-23030 *	US-PATENT-CLASS-73-178-R	c 02	N88-23759 *	US-PATENT-CLASS-73-290	c 14	N71-21007 *
US-PATENT-CLASS-73-147	c 15	N71-27006 *	US-PATENT-CLASS-73-178-T	c 09	N90-20096 *	US-PATENT-CLASS-73-295	c 23	N71-17802 *
US-PATENT-CLASS-73-147	c 15	N71-28740 *	US-PATENT-CLASS-73-178R	c 35	N75-29381 *	US-PATENT-CLASS-73-295	c 31	N76-14284 *
US-PATENT-CLASS-73-147	c 11	N71-33612 *	US-PATENT-CLASS-73-178R	c 04	N77-19056 *	US-PATENT-CLASS-73-29	c 14	N71-17701 *
US-PATENT-CLASS-73-147	c 11	N72-17183 *	US-PATENT-CLASS-73-178R	c 37	N78-27424 *	US-PATENT-CLASS-73-29	c 14	N71-20741 *
US-PATENT-CLASS-73-147	c 14	N72-21407 *	US-PATENT-CLASS-73-178R	c 35	N79-26372 *	US-PATENT-CLASS-73-301	c 12	N71-26387 *
US-PATENT-CLASS-73-147	c 11	N72-22246 *	US-PATENT-CLASS-73-178R	c 06	N81-17057 *	US-PATENT-CLASS-73-304-R	c 35	N88-29150 *
US-PATENT-CLASS-73-147	c 11	N73-12264 *	US-PATENT-CLASS-73-178R	c 04	N81-21047 *	US-PATENT-CLASS-73-304C	c 14	N71-29134 *
US-PATENT-CLASS-73-147	c 14	N73-13415 *	US-PATENT-CLASS-73-178R	c 18	N81-29152 *	US-PATENT-CLASS-73-304	c 14	N72-22442 *
US-PATENT-CLASS-73-147	c 12	N73-25262 *	US-PATENT-CLASS-73-178R	c 06	N82-16075 *	US-PATENT-CLASS-73-30	c 14	N70-41681 *
US-PATENT-CLASS-73-147	c 12	N73-28144 *	US-PATENT-CLASS-73-178R	c 06	N83-10040 *	US-PATENT-CLASS-73-32R	c 76	N75-12810 *
US-PATENT-CLASS-73-147	c 09	N74-17955 *	US-PATENT-CLASS-73-178R	c 06	N84-27733 *	US-PATENT-CLASS-73-32R	c 35	N84-28018 *
US-PATENT-CLASS-73-147	c 34	N74-27730 *	US-PATENT-CLASS-73-178T	c 06	N86-27280 *	US-PATENT-CLASS-73-32	c 14	N70-41330 *
US-PATENT-CLASS-73-147	c 09	N75-12969 *	US-PATENT-CLASS-73-178T	c 04	N91-31120 *	US-PATENT-CLASS-73-336.5	c 35	N78-25391 *
US-PATENT-CLASS-73-147	c 09	N76-23273 *	US-PATENT-CLASS-73-178	c 14	N70-36807 *	US-PATENT-CLASS-73-336.5	c 35	N85-29212 *
US-PATENT-CLASS-73-147	c 34	N76-27517 *	US-PATENT-CLASS-73-178	c 14	N70-40157 *	US-PATENT-CLASS-73-336.5	c 35	N87-22953 *
US-PATENT-CLASS-73-147	c 09	N77-10071 *	US-PATENT-CLASS-73-179	c 34	N85-21568 *	US-PATENT-CLASS-73-339	c 33	N73-27796 *
US-PATENT-CLASS-73-147	c 09	N78-31129 *	US-PATENT-CLASS-73-17	c 06	N71-24607 *	US-PATENT-CLASS-73-341	c 14	N71-15598 *
US-PATENT-CLASS-73-147	c 35	N79-14347 *	US-PATENT-CLASS-73-180	c 35	N78-14364 *	US-PATENT-CLASS-73-341	c 44	N82-16474 *
US-PATENT-CLASS-73-147	c 09	N79-21083 *	US-PATENT-CLASS-73-180	c 02	N80-28300 *	US-PATENT-CLASS-73-343R	c 52	N77-10780 *
US-PATENT-CLASS-73-147	c 02	N80-20224 *	US-PATENT-CLASS-73-180	c 35	N89-12841 *	US-PATENT-CLASS-73-343R	c 35	N80-18357 *
US-PATENT-CLASS-73-147	c 06	N81-17057 *	US-PATENT-CLASS-73-182	c 14	N73-13415 *	US-PATENT-CLASS-73-343	c 33	N71-16356 *
US-PATENT-CLASS-73-147	c 09	N82-11088 *	US-PATENT-CLASS-73-182	c 35	N74-32878 *	US-PATENT-CLASS-73-343	c 11	N71-21475 *
US-PATENT-CLASS-73-147	c 09	N82-23254 *	US-PATENT-CLASS-73-182	c 35	N76-14429 *	US-PATENT-CLASS-73-355R	c 14	N72-24477 *
US-PATENT-CLASS-73-147	c 71	N83-17235 *	US-PATENT-CLASS-73-182	c 02	N80-28300 *	US-PATENT-CLASS-73-355R	c 35	N80-18359 *
US-PATENT-CLASS-73-147	c 44	N83-21503 *	US-PATENT-CLASS-73-182	c 35	N92-21586 *	US-PATENT-CLASS-73-355	c 14	N71-27323 *
US-PATENT-CLASS-73-147	c 44	N83-21504 *	US-PATENT-CLASS-73-187	c 35	N85-20295 *	US-PATENT-CLASS-73-355	c 14	N72-28437 *
US-PATENT-CLASS-73-147	c 74	N83-21949 *	US-PATENT-CLASS-73-188	c 06	N80-18036 *	US-PATENT-CLASS-73-356	c 35	N75-25122 *
US-PATENT-CLASS-73-147	c 35	N84-22934 *	US-PATENT-CLASS-73-189	c 20	N71-16281 *	US-PATENT-CLASS-73-35	c 33	N72-27959 *
US-PATENT-CLASS-73-147	c 09	N84-34448 *	US-PATENT-CLASS-73-189	c 02	N71-23007 *	US-PATENT-CLASS-73-361	c 35	N81-26431 *
US-PATENT-CLASS-73-147	c 09	N85-21178 *	US-PATENT-CLASS-73-189	c 14	N71-23726 *	US-PATENT-CLASS-73-362AR	c 35	N77-27368 *
US-PATENT-CLASS-73-147	c 35	N86-32696 *	US-PATENT-CLASS-73-189	c 14	N73-13415 *	US-PATENT-CLASS-73-37.5	c 35	N86-32698 *
US-PATENT-CLASS-73-147	c 34	N87-21255 *	US-PATENT-CLASS-73-189	c 14	N73-25460 *	US-PATENT-CLASS-73-379	c 05	N73-27941 *
US-PATENT-CLASS-73-147	c 09	N87-25334 *	US-PATENT-CLASS-73-189	c 35	N76-24524 *	US-PATENT-CLASS-73-379	c 05	N73-30078 *
US-PATENT-CLASS-73-147	c 35	N87-28884 *	US-PATENT-CLASS-73-189	c 34	N76-27517 *	US-PATENT-CLASS-73-379	c 35	N75-15932 *
US-PATENT-CLASS-73-147	c 02	N88-23759 *	US-PATENT-CLASS-73-189	c 34	N77-27345 *	US-PATENT-CLASS-73-379	c 39	N83-20280 *
US-PATENT-CLASS-73-147	c 02	N89-12551 *	US-PATENT-CLASS-73-189	c 34	N79-12359 *	US-PATENT-CLASS-73-382	c 10	N71-13537 *
US-PATENT-CLASS-73-147	c 35	N89-12841 *	US-PATENT-CLASS-73-189	c 06	N80-18036 *	US-PATENT-CLASS-73-382	c 14	N71-17587 *
US-PATENT-CLASS-73-147	c 35	N89-14423 *	US-PATENT-CLASS-73-189	c 47	N84-28292 *	US-PATENT-CLASS-73-384	c 15	N70-37925 *
US-PATENT-CLASS-73-147	c 35	N90-17117 *	US-PATENT-CLASS-73-190H	c 35	N74-22095 *	US-PATENT-CLASS-73-388	c 35	N74-32878 *
US-PATENT-CLASS-73-147	c 35	N90-23707 *	US-PATENT-CLASS-73-190R	c 34	N74-27859 *	US-PATENT-CLASS-73-389	c 12	N71-24692 *
US-PATENT-CLASS-73-147	c 09	N91-14356 *	US-PATENT-CLASS-73-190R	c 35	N81-19426 *	US-PATENT-CLASS-73-38	c 18	N71-24934 *
US-PATENT-CLASS-73-147	c 09	N91-14357 *	US-PATENT-CLASS-73-190	c 33	N71-15641 *	US-PATENT-CLASS-73-398AR	c 52	N74-27566 *
US-PATENT-CLASS-73-147	c 35	N92-10185 *	US-PATENT-CLASS-73-190	c 14	N71-22989 *	US-PATENT-CLASS-73-398AR	c 52	N76-29896 *
US-PATENT-CLASS-73-147	c 35	N92-21586 *	US-PATENT-CLASS-73-190	c 33	N71-23085 *	US-PATENT-CLASS-73-398C	c 14	N72-22438 *
US-PATENT-CLASS-73-147	c 02	N92-21588 *	US-PATENT-CLASS-73-190	c 33	N71-29051 *	US-PATENT-CLASS-73-398C	c 33	N76-21390 *
US-PATENT-CLASS-73-147	c 35	N92-21710 *	US-PATENT-CLASS-73-194A	c 14	N72-17329 *	US-PATENT-CLASS-73-398	c 14	N70-34816 *
US-PATENT-CLASS-73-149	c 14	N72-11363 *	US-PATENT-CLASS-73-194EM	c 14	N73-32326 *	US-PATENT-CLASS-73-398	c 14	N71-21072 *
US-PATENT-CLASS-73-149	c 52	N74-10975 *	US-PATENT-CLASS-73-194EM	c 35	N74-21018 *	US-PATENT-CLASS-73-398	c 09	N71-24597 *
US-PATENT-CLASS-73-149	c 35	N91-15511 *	US-PATENT-CLASS-73-194E	c 14	N73-20478 *	US-PATENT-CLASS-73-398	c 14	N73-30394 *
US-PATENT-CLASS-73-149	c 35	N91-21493 *	US-PATENT-CLASS-73-194E	c 05	N73-32015 *	US-PATENT-CLASS-73-399	c 37	N76-18454 *
US-PATENT-CLASS-73-149	c 35	N91-21495 *	US-PATENT-CLASS-73-194F	c 14	N72-11365 *	US-PATENT-CLASS-73-3	c 34	N74-27730 *
US-PATENT-CLASS-73-15.4	c 14	N71-17659 *	US-PATENT-CLASS-73-194M	c 05	N73-32015 *	US-PATENT-CLASS-73-3	c 34	N86-12547 *
US-PATENT-CLASS-73-15.4	c 35	N74-32879 *	US-PATENT-CLASS-73-194M	c 35	N75-30503 *	US-PATENT-CLASS-73-4R	c 35	N74-13132 *
US-PATENT-CLASS-73-15.6	c 14	N70-35368 *	US-PATENT-CLASS-73-194R	c 34	N76-27517 *	US-PATENT-CLASS-73-4R	c 35	N79-14347 *
US-PATENT-CLASS-73-15.6	c 14	N71-24234 *	US-PATENT-CLASS-73-194VS	c 34	N79-12359 *	US-PATENT-CLASS-73-4R	c 35	N80-18358 *
US-PATENT-CLASS-73-15.6	c 14	N71-26136 *	US-PATENT-CLASS-73-194	c 14	N70-41994 *	US-PATENT-CLASS-73-4V	c 35	N74-15092 *
US-PATENT-CLASS-73-15.6	c 32	N72-25877 *	US-PATENT-CLASS-73-194	c 14	N71-23226 *	US-PATENT-CLASS-73-40.5A	c 35	N85-21597 *
US-PATENT-CLASS-73-15.6	c 09	N74-19528 *	US-PATENT-CLASS-73-194	c 12	N71-26546 *	US-PATENT-CLASS-73-40.5	c 14	N71-10779 *
US-PATENT-CLASS-73-15.6	c 35	N76-24523 *	US-PATENT-CLASS-73-195	c 35	N75-30503 *	US-PATENT-CLASS-73-40.7	c 15	N71-24910 *
US-PATENT-CLASS-73-15.6	c 35	N77-22450 *	US-PATENT-CLASS-73-198	c 14	N69-24257 *	US-PATENT-CLASS-73-40.7	c 14	N71-28992 *
US-PATENT-CLASS-73-15.6	c 39	N78-10493 *	US-PATENT-CLASS-73-198	c 14	N72-17327 *	US-PATENT-CLASS-73-40.7	c 35	N74-32879 *
US-PATENT-CLASS-73-15R	c 33	N72-25913 *	US-PATENT-CLASS-73-1	c 10	N71-13545 *	US-PATENT-CLASS-73-400	c 35	N85-29213 *
US-PATENT-CLASS-73-15R	c 14	N73-28486 *	US-PATENT-CLASS-73-1	c 09	N71-22988 *	US-PATENT-CLASS-73-400	c 14	N71-23093 *
US-PATENT-CLASS-73-15R	c 25	N74-18551 *	US-PATENT-CLASS-73-204.11	c 35	N92-21710 *	US-PATENT-CLASS-73-400	c 14	N71-24232 *
US-PATENT-CLASS-73-15R	c 31	N74-27900 *	US-PATENT-CLASS-73-204	c 12	N71-17569 *	US-PATENT-CLASS-73-400	c 35	N79-33450 *
US-PATENT-CLASS-73-15R	c 09	N77-27131 *	US-PATENT-CLASS-73-204	c 35	N76-24524 *	US-PATENT-CLASS-73-401	c 14	N70-34820 *
US-PATENT-CLASS-73-15R	c 74	N81-17887 *	US-PATENT-CLASS-73-204	c 35	N77-20400 *	US-PATENT-CLASS-73-40	c 35	N75-15931 *
US-PATENT-CLASS-73-150-A	c 39	N86-20841 *	US-PATENT-CLASS-73-204	c 52	N83-27577 *	US-PATENT-CLASS-73-40	c 35	N80-18358 *
US-PATENT-CLASS-73-150R	c 35	N84-28018 *	US-PATENT-CLASS-73-205L	c 02	N80-20224 *	US-PATENT-CLASS-73-419	c 14	N71-22752 *
US-PATENT-CLASS-73-155	c 46	N80-10709 *	US-PATENT-CLASS-73-212	c 14	N70-36824 *	US-PATENT-CLASS-73-420	c 35	N74-13132 *
US-PATENT-CLASS-73-155	c 46	N80-24906 *	US-PATENT-CLASS-73-212	c 14	N73-13415 *	US-PATENT-CLASS-73-421.5R	c 13	N72-25323 *
US-PATENT-CLASS-73-159	c 31	N79-11246 *	US-PATENT-CLASS-73-212	c 35	N76-14429 *	US-PATENT-CLASS-73-421.5R	c 14	N73-30395 *
US-PATENT-CLASS-73-15	c 14	N70-34156 *	US-PATENT-CLASS-73-212	c 06	N80-18036 *	US-PATENT-CLASS-73-421.5R	c 52	N74-20728 *
US-PATENT-CLASS-73-15	c 14	N71-15992 *	US-PATENT-CLASS-73-221	c 35	N75-19611 *	US-PATENT-CLASS-73-421.5R	c 35	N76-18401 *
US-PATENT-CLASS-73-15	c 14	N71-22964 *	US-PATENT-CLASS-73-228	c 34	N77-27345 *	US-PATENT-CLASS-73-421.5R	c 35	N77-32456 *

US-PATENT-CLASS-73-421.5

REPORT NUMBER INDEX

US-PATENT-CLASS-73-421.5	c 14	N73-12444 *	US-PATENT-CLASS-73-582	c 27	N85-20126 *	US-PATENT-CLASS-73-810	c 39	N79-22537 *
US-PATENT-CLASS-73-421R	c 54	N76-14804 *	US-PATENT-CLASS-73-583	c 71	N87-21652 *	US-PATENT-CLASS-73-810	c 39	N87-25601 *
US-PATENT-CLASS-73-422GC	c 13	N72-25323 *	US-PATENT-CLASS-73-587	c 35	N88-23966 *	US-PATENT-CLASS-73-810	c 35	N88-23967 *
US-PATENT-CLASS-73-422TC	c 13	N72-25323 *	US-PATENT-CLASS-73-588	c 37	N84-33807 *	US-PATENT-CLASS-73-818	c 35	N83-21312 *
US-PATENT-CLASS-73-422	c 14	N71-20435 *	US-PATENT-CLASS-73-588	c 27	N85-20126 *	US-PATENT-CLASS-73-818	c 39	N83-32081 *
US-PATENT-CLASS-73-425.2	c 91	N76-30131 *	US-PATENT-CLASS-73-589	c 35	N79-10390 *	US-PATENT-CLASS-73-81	c 14	N73-32321 *
US-PATENT-CLASS-73-425.4R	c 35	N78-27384 *	US-PATENT-CLASS-73-589	c 35	N84-22933 *	US-PATENT-CLASS-73-822	c 39	N83-32081 *
US-PATENT-CLASS-73-425.6	c 15	N72-21465 *	US-PATENT-CLASS-73-589	c 71	N87-21652 *	US-PATENT-CLASS-73-826	c 14	N91-27175 *
US-PATENT-CLASS-73-432.1	c 34	N90-19534 *	US-PATENT-CLASS-73-594	c 35	N84-22933 *	US-PATENT-CLASS-73-827	c 39	N86-20841 *
US-PATENT-CLASS-73-432.1	c 34	N91-31596 *	US-PATENT-CLASS-73-597	c 33	N83-16626 *	US-PATENT-CLASS-73-82	c 43	N79-25443 *
US-PATENT-CLASS-73-432PS	c 76	N75-12810 *	US-PATENT-CLASS-73-597	c 52	N83-27578 *	US-PATENT-CLASS-73-82	c 43	N80-14423 *
US-PATENT-CLASS-73-432PS	c 35	N75-33367 *	US-PATENT-CLASS-73-597	c 32	N87-14559 *	US-PATENT-CLASS-73-82	c 43	N80-23711 *
US-PATENT-CLASS-73-432PS	c 35	N78-18390 *	US-PATENT-CLASS-73-599	c 71	N87-21652 *	US-PATENT-CLASS-73-831	c 35	N85-34375 *
US-PATENT-CLASS-73-432R	c 33	N73-27796 *	US-PATENT-CLASS-73-599	c 71	N87-21653 *	US-PATENT-CLASS-73-831	c 37	N90-20409 *
US-PATENT-CLASS-73-432R	c 14	N73-28487 *	US-PATENT-CLASS-73-603	c 38	N78-32447 *	US-PATENT-CLASS-73-833	c 24	N84-27829 *
US-PATENT-CLASS-73-432R	c 91	N76-30131 *	US-PATENT-CLASS-73-60	c 14	N73-14429 *	US-PATENT-CLASS-73-834	c 37	N88-14361 *
US-PATENT-CLASS-73-432R	c 35	N77-19385 *	US-PATENT-CLASS-73-61.C	c 23	N77-17161 *	US-PATENT-CLASS-73-845	c 35	N90-23712 *
US-PATENT-CLASS-73-432R	c 35	N78-18390 *	US-PATENT-CLASS-73-61R	c 35	N78-27384 *	US-PATENT-CLASS-73-84	c 14	N71-22765 *
US-PATENT-CLASS-73-432R	c 15	N84-16231 *	US-PATENT-CLASS-73-615	c 32	N87-14559 *	US-PATENT-CLASS-73-84	c 14	N73-19420 *
US-PATENT-CLASS-73-432SD	c 11	N72-27262 *	US-PATENT-CLASS-73-61	c 14	N71-26199 *	US-PATENT-CLASS-73-84	c 35	N77-27367 *
US-PATENT-CLASS-73-432SD	c 11	N73-20267 *	US-PATENT-CLASS-73-620	c 35	N84-22928 *	US-PATENT-CLASS-73-852	c 37	N91-21540 *
US-PATENT-CLASS-73-432SD	c 35	N77-18417 *	US-PATENT-CLASS-73-626	c 52	N79-26771 *	US-PATENT-CLASS-73-856	c 39	N83-32081 *
US-PATENT-CLASS-73-432T	c 74	N84-11921 *	US-PATENT-CLASS-73-629	c 33	N83-16626 *	US-PATENT-CLASS-73-856	c 24	N84-27829 *
US-PATENT-CLASS-73-432	c 11	N70-34786 *	US-PATENT-CLASS-73-630	c 39	N78-15512 *	US-PATENT-CLASS-73-856	c 35	N85-34375 *
US-PATENT-CLASS-73-432	c 11	N70-38675 *	US-PATENT-CLASS-73-631	c 71	N91-27914 *	US-PATENT-CLASS-73-856	c 09	N87-25334 *
US-PATENT-CLASS-73-432	c 05	N70-42000 *	US-PATENT-CLASS-73-632	c 38	N79-14398 *	US-PATENT-CLASS-73-85	c 14	N72-33377 *
US-PATENT-CLASS-73-432	c 31	N71-16221 *	US-PATENT-CLASS-73-633	c 52	N79-14751 *	US-PATENT-CLASS-73-860	c 39	N83-32081 *
US-PATENT-CLASS-73-432	c 27	N71-16223 *	US-PATENT-CLASS-73-633	c 35	N84-22928 *	US-PATENT-CLASS-73-860	c 37	N90-20409 *
US-PATENT-CLASS-73-432	c 30	N71-17788 *	US-PATENT-CLASS-73-64.4	c 34	N83-31993 *	US-PATENT-CLASS-73-861.05	c 33	N83-31954 *
US-PATENT-CLASS-73-432	c 14	N71-23227 *	US-PATENT-CLASS-73-641	c 38	N79-14398 *	US-PATENT-CLASS-73-861.07	c 34	N86-12547 *
US-PATENT-CLASS-73-432	c 10	N71-26339 *	US-PATENT-CLASS-73-644	c 38	N79-14398 *	US-PATENT-CLASS-73-861.58	c 35	N86-25752 *
US-PATENT-CLASS-73-432	c 11	N71-28629 *	US-PATENT-CLASS-73-644	c 52	N79-14751 *	US-PATENT-CLASS-73-861.65	c 02	N80-28300 *
US-PATENT-CLASS-73-432	c 14	N71-30026 *	US-PATENT-CLASS-73-646	c 71	N78-14867 *	US-PATENT-CLASS-73-861.65	c 35	N89-14423 *
US-PATENT-CLASS-73-432	c 35	N74-21062 *	US-PATENT-CLASS-73-646	c 35	N84-12445 *	US-PATENT-CLASS-73-861.66	c 02	N80-28300 *
US-PATENT-CLASS-73-45.5	c 12	N71-17573 *	US-PATENT-CLASS-73-647	c 32	N79-24203 *	US-PATENT-CLASS-73-861.71	c 47	N84-28292 *
US-PATENT-CLASS-73-456	c 35	N78-24515 *	US-PATENT-CLASS-73-655	c 35	N80-14371 *	US-PATENT-CLASS-73-861	c 34	N81-26402 *
US-PATENT-CLASS-73-462	c 35	N87-14670 *	US-PATENT-CLASS-73-657	c 35	N85-30282 *	US-PATENT-CLASS-73-862.01	c 35	N86-19581 *
US-PATENT-CLASS-73-468	c 37	N84-28082 *	US-PATENT-CLASS-73-658	c 35	N84-12445 *	US-PATENT-CLASS-73-862.04	c 35	N86-32696 *
US-PATENT-CLASS-73-46	c 35	N75-19612 *	US-PATENT-CLASS-73-658	c 37	N91-14607 *	US-PATENT-CLASS-73-862.04	c 35	N92-10185 *
US-PATENT-CLASS-73-473	c 35	N87-14670 *	US-PATENT-CLASS-73-65	c 14	N71-22992 *	US-PATENT-CLASS-73-862.08	c 54	N82-26987 *
US-PATENT-CLASS-73-477	c 35	N87-14670 *	US-PATENT-CLASS-73-661	c 35	N80-14371 *	US-PATENT-CLASS-73-862.33	c 35	N91-17350 *
US-PATENT-CLASS-73-49.2	c 32	N71-24285 *	US-PATENT-CLASS-73-663	c 14	N91-21176 *	US-PATENT-CLASS-73-862.36	c 35	N91-17350 *
US-PATENT-CLASS-73-49.2	c 35	N75-15931 *	US-PATENT-CLASS-73-67.1	c 35	N75-12271 *	US-PATENT-CLASS-73-862.54	c 37	N83-36482 *
US-PATENT-CLASS-73-49.2	c 35	N75-19612 *	US-PATENT-CLASS-73-67.2	c 11	N69-21540 *	US-PATENT-CLASS-73-862.54	c 35	N85-20294 *
US-PATENT-CLASS-73-49.3	c 14	N71-26672 *	US-PATENT-CLASS-73-67.2	c 15	N71-18132 *	US-PATENT-CLASS-73-862.54	c 35	N86-19581 *
US-PATENT-CLASS-73-49.8	c 14	N69-27503 *	US-PATENT-CLASS-73-67.2	c 14	N72-22440 *	US-PATENT-CLASS-73-862.61	c 35	N86-32696 *
US-PATENT-CLASS-73-49.8	c 15	N71-29132 *	US-PATENT-CLASS-73-67.2	c 35	N78-17358 *	US-PATENT-CLASS-73-862.61	c 35	N90-17117 *
US-PATENT-CLASS-73-49.8	c 14	N91-21175 *	US-PATENT-CLASS-73-67.3	c 32	N73-26910 *	US-PATENT-CLASS-73-862.65	c 35	N84-28015 *
US-PATENT-CLASS-73-490	c 04	N81-21047 *	US-PATENT-CLASS-73-67.5R	c 38	N74-15395 *	US-PATENT-CLASS-73-862.65	c 35	N92-10185 *
US-PATENT-CLASS-73-492	c 14	N72-25411 *	US-PATENT-CLASS-73-67.7	c 39	N77-28511 *	US-PATENT-CLASS-73-863.11	c 35	N83-29650 *
US-PATENT-CLASS-73-493	c 17	N76-29347 *	US-PATENT-CLASS-73-67.8S	c 35	N74-10415 *	US-PATENT-CLASS-73-863.11	c 37	N85-29286 *
US-PATENT-CLASS-73-497	c 14	N71-30265 *	US-PATENT-CLASS-73-67.8S	c 38	N74-15130 *	US-PATENT-CLASS-73-863.21	c 35	N86-26595 *
US-PATENT-CLASS-73-497	c 35	N74-15094 *	US-PATENT-CLASS-73-67.9	c 52	N74-20726 *	US-PATENT-CLASS-73-863.22	c 51	N91-31755 *
US-PATENT-CLASS-73-4	c 14	N71-18481 *	US-PATENT-CLASS-73-683.31	c 35	N81-29407 *	US-PATENT-CLASS-73-863.23	c 34	N92-16241 *
US-PATENT-CLASS-73-4	c 14	N71-23036 *	US-PATENT-CLASS-73-684.52	c 35	N81-29407 *	US-PATENT-CLASS-73-863.31	c 45	N83-25217 *
US-PATENT-CLASS-73-4	c 14	N71-23755 *	US-PATENT-CLASS-73-69	c 71	N74-31148 *	US-PATENT-CLASS-73-863.31	c 35	N86-26595 *
US-PATENT-CLASS-73-4	c 14	N73-30390 *	US-PATENT-CLASS-73-70.2	c 14	N71-10616 *	US-PATENT-CLASS-73-863.41	c 51	N91-31755 *
US-PATENT-CLASS-73-502	c 35	N86-32695 *	US-PATENT-CLASS-73-705	c 36	N85-21639 *	US-PATENT-CLASS-73-863.72	c 35	N86-26595 *
US-PATENT-CLASS-73-504	c 04	N81-21047 *	US-PATENT-CLASS-73-708	c 34	N85-21568 *	US-PATENT-CLASS-73-863.83	c 45	N83-25217 *
US-PATENT-CLASS-73-505	c 23	N71-16098 *	US-PATENT-CLASS-73-708	c 35	N92-21586 *	US-PATENT-CLASS-73-863.85	c 51	N91-31755 *
US-PATENT-CLASS-73-505	c 12	N75-24774 *	US-PATENT-CLASS-73-71.2	c 14	N70-34794 *	US-PATENT-CLASS-73-863.86	c 35	N85-29213 *
US-PATENT-CLASS-73-505	c 71	N78-10837 *	US-PATENT-CLASS-73-71.3	c 35	N74-15146 *	US-PATENT-CLASS-73-863.86	c 51	N91-31755 *
US-PATENT-CLASS-73-505	c 71	N79-20827 *	US-PATENT-CLASS-73-71.4	c 32	N71-16428 *	US-PATENT-CLASS-73-864.34	c 35	N86-26595 *
US-PATENT-CLASS-73-505	c 71	N81-15767 *	US-PATENT-CLASS-73-71.4	c 32	N71-26681 *	US-PATENT-CLASS-73-864.41	c 35	N84-28018 *
US-PATENT-CLASS-73-505	c 71	N83-32515 *	US-PATENT-CLASS-73-71.5R	c 71	N74-31148 *	US-PATENT-CLASS-73-864.52	c 35	N85-29213 *
US-PATENT-CLASS-73-505	c 71	N83-32516 *	US-PATENT-CLASS-73-71.5U	c 38	N74-15395 *	US-PATENT-CLASS-73-864.63	c 45	N83-25217 *
US-PATENT-CLASS-73-505	c 71	N83-36846 *	US-PATENT-CLASS-73-71.6	c 14	N71-27185 *	US-PATENT-CLASS-73-864.81	c 37	N85-29286 *
US-PATENT-CLASS-73-505	c 71	N84-23233 *	US-PATENT-CLASS-73-71.6	c 14	N72-27412 *	US-PATENT-CLASS-73-865.6	c 09	N91-21157 *
US-PATENT-CLASS-73-505	c 71	N85-22105 *	US-PATENT-CLASS-73-71.6	c 14	N73-13416 *	US-PATENT-CLASS-73-865.6	c 14	N91-21176 *
US-PATENT-CLASS-73-505	c 71	N85-29693 *	US-PATENT-CLASS-73-71.6	c 14	N73-19421 *	US-PATENT-CLASS-73-866.4	c 14	N91-21176 *
US-PATENT-CLASS-73-505	c 35	N86-20752 *	US-PATENT-CLASS-73-71.6	c 35	N77-18417 *	US-PATENT-CLASS-73-86	c 14	N69-39975 *
US-PATENT-CLASS-73-505	c 26	N86-32551 *	US-PATENT-CLASS-73-714	c 35	N79-14347 *	US-PATENT-CLASS-73-86	c 33	N71-21586 *
US-PATENT-CLASS-73-505	c 71	N88-24241 *	US-PATENT-CLASS-73-714	c 34	N79-24285 *	US-PATENT-CLASS-73-86	c 33	N73-27796 *
US-PATENT-CLASS-73-505	c 71	N89-13236 *	US-PATENT-CLASS-73-714	c 35	N84-14491 *	US-PATENT-CLASS-73-86	c 34	N74-15652 *
US-PATENT-CLASS-73-505	c 35	N89-14422 *	US-PATENT-CLASS-73-721	c 35	N79-14347 *	US-PATENT-CLASS-73-88.5R	c 15	N72-17452 *
US-PATENT-CLASS-73-505	c 71	N90-12289 *	US-PATENT-CLASS-73-721	c 35	N84-22934 *	US-PATENT-CLASS-73-88.5R	c 32	N73-26910 *
US-PATENT-CLASS-73-505	c 71	N91-14807 *	US-PATENT-CLASS-73-724	c 32	N79-24203 *	US-PATENT-CLASS-73-88.5R	c 52	N74-27864 *
US-PATENT-CLASS-73-510	c 18	N81-29152 *	US-PATENT-CLASS-73-724	c 52	N80-18691 *	US-PATENT-CLASS-73-88.5R	c 35	N76-14430 *
US-PATENT-CLASS-73-515	c 14	N72-25410 *	US-PATENT-CLASS-73-724	c 33	N82-26572 *	US-PATENT-CLASS-73-88.5SD	c 33	N76-19338 *
US-PATENT-CLASS-73-517B	c 35	N74-15094 *	US-PATENT-CLASS-73-753	c 35	N85-21597 *	US-PATENT-CLASS-73-88.5	c 14	N70-34705 *
US-PATENT-CLASS-73-517R	c 17	N76-29347 *	US-PATENT-CLASS-73-756	c 35	N78-24515 *	US-PATENT-CLASS-73-88.5	c 14	N70-34799 *
US-PATENT-CLASS-73-517	c 11	N70-38196 *	US-PATENT-CLASS-73-756	c 35	N79-14347 *	US-PATENT-CLASS-73-88.5	c 14	N71-17656 *
US-PATENT-CLASS-73-517	c 14	N70-41682 *	US-PATENT-CLASS-73-756	c 35	N84-22934 *	US-PATENT-CLASS-73-88.5	c 14	N71-21091 *
US-PATENT-CLASS-73-517	c 14	N71-15969 *	US-PATENT-CLASS-73-756	c 35	N87-28884 *	US-PATENT-CLASS-73-88.5	c 14	N71-23087 *
US-PATENT-CLASS-73-521	c 14	N72-25410 *	US-PATENT-CLASS-73-75	c 35	N85-34373 *	US-PATENT-CLASS-73-88.5	c 14	N71-24233 *
US-PATENT-CLASS-73-521	c 35	N86-32695 *	US-PATENT-CLASS-73-761	c 33	N83-16626 *	US-PATENT-CLASS-73-88.5	c 09	N72-22200 *
US-PATENT-CLASS-73-557	c 35	N75-19614 *	US-PATENT-CLASS-73-76	c 06	N72-17095 *	US-PATENT-CLASS-73-88.5	c 33	N75-31329 *
US-PATENT-CLASS-73-557	c 07	N76-27232 *	US-PATENT-CLASS-73-770	c 39	N79-22537 *	US-PATENT-CLASS-73-88.5	c 38	N76-28563 *
US-PATENT-CLASS-73-56	c 35	N80-18357 *	US-PATENT-CLASS-73-781	c 52	N80-27072 *	US-PATENT-CLASS-73-88A	c 32	N73-20740 *
US-PATENT-CLASS-73-571	c 71	N90-12289 *	US-PATENT-CLASS-73-794	c 35	N88-23967 *	US-PATENT-CLASS-73-88F	c 39	N78-15512 *
US-PATENT-CLASS-73-579	c 39	N78-15512 *	US-PATENT-CLASS-73-794	c 24	N91-14430 *	US-PATENT-CLASS-73-88R	c 35	N74-13129 *
US-PATENT-CLASS-73-579	c 35	N79-10390 *	US-PATENT-CLASS-73-799	c 35	N90-23712 *	US-PATENT-CLASS-73-88R	c 35	N77-22449 *
US-PATENT-CLASS-73-579	c 33	N83-18626 *	US-PATENT-CLASS-73-79	c 14	N71-26161 *	US-PATENT-CLASS-73-88R	c 39	N77-28511 *
US-PATENT-CLASS-73-579	c 27	N85-20126 *	US-PATENT-CLASS-73-7	c 25	N86-19413 *	US-PATENT-CLASS-73-88	c 32	N71-17645 *
US-PATENT-CLASS-73-57	c 14	N71-17584 *	US-PATENT-CLASS-73-801	c 35	N88-23966 *	US-PATENT-CLASS-73-90	c 32	N70-42003 *
US-PATENT-CLASS-73-57	c 14	N73-14429 *	US-PATENT-CLASS-73-809	c 39	N87-25601 *	US-PATENT-CLASS-73-90	c 32	N71-25360 *

REPORT NUMBER INDEX

US-PATENT-CLASS-9-11

US-PATENT-CLASS-73-90	c 14	N73-20476 *	US-PATENT-CLASS-74-83	c 37	N78-16369 *	US-PATENT-CLASS-8-94.11	c 51	N77-27677 *
US-PATENT-CLASS-73-91	c 14	N73-20476 *	US-PATENT-CLASS-74-89.15	c 15	N71-26635 *	US-PATENT-CLASS-8-94.12	c 18	N71-15545 *
US-PATENT-CLASS-73-91	c 32	N73-26910 *	US-PATENT-CLASS-74-89.15	c 15	N72-21462 *	US-PATENT-CLASS-81-119	c 37	N79-14383 *
US-PATENT-CLASS-73-91	c 09	N74-19528 *	US-PATENT-CLASS-74-89.15	c 35	N87-21304 *	US-PATENT-CLASS-81-177G	c 37	N85-21649 *
US-PATENT-CLASS-73-91	c 39	N78-10493 *	US-PATENT-CLASS-74-89.18	c 15	N71-23809 *	US-PATENT-CLASS-81-180B	c 37	N79-14383 *
US-PATENT-CLASS-73-94	c 14	N73-32323 *	US-PATENT-CLASS-74-89	c 37	N81-33483 *	US-PATENT-CLASS-81-3R	c 15	N71-29133 *
US-PATENT-CLASS-73-95	c 15	N71-24834 *	US-PATENT-CLASS-74-96	c 37	N77-22482 *	US-PATENT-CLASS-81-55	c 37	N83-36482 *
US-PATENT-CLASS-73-95	c 14	N72-11364 *	US-PATENT-CLASS-75-5B	c 17	N72-22530 *	US-PATENT-CLASS-81-56	c 37	N76-20480 *
US-PATENT-CLASS-73-95	c 35	N76-18400 *	US-PATENT-CLASS-75-DIG.1	c 18	N72-25539 *	US-PATENT-CLASS-81-57.31	c 37	N76-20480 *
US-PATENT-CLASS-73-95	c 35	N77-22450 *	US-PATENT-CLASS-75-DIG.1	c 37	N75-26371 *	US-PATENT-CLASS-81-57.38	c 15	N73-30457 *
US-PATENT-CLASS-73-95	c 31	N79-11246 *	US-PATENT-CLASS-75-0.5BB	c 15	N72-25448 *	US-PATENT-CLASS-81-57.38	c 37	N83-36482 *
US-PATENT-CLASS-73-97	c 14	N71-15600 *	US-PATENT-CLASS-75-122.7	c 37	N77-19458 *	US-PATENT-CLASS-81-63.1	c 15	N71-17805 *
US-PATENT-CLASS-73-99	c 14	N71-10781 *	US-PATENT-CLASS-75-124	c 26	N78-18182 *	US-PATENT-CLASS-81-9.5R	c 37	N79-10419 *
US-PATENT-CLASS-73-9	c 14	N71-22995 *	US-PATENT-CLASS-75-124	c 26	N80-32484 *	US-PATENT-CLASS-81-90B	c 37	N79-14383 *
US-PATENT-CLASS-73-9	c 35	N76-31489 *	US-PATENT-CLASS-75-126D	c 26	N78-18182 *	US-PATENT-CLASS-82-1.2	c 37	N81-14319 *
US-PATENT-CLASS-73-9	c 15	N84-16231 *	US-PATENT-CLASS-75-126F	c 26	N78-18182 *	US-PATENT-CLASS-82-1C	c 37	N81-14319 *
US-PATENT-CLASS-74-100R	c 37	N78-31426 *	US-PATENT-CLASS-75-128G	c 26	N78-18182 *	US-PATENT-CLASS-82-14	c 15	N71-22722 *
US-PATENT-CLASS-74-100	c 15	N71-24045 *	US-PATENT-CLASS-75-128T	c 26	N78-18182 *	US-PATENT-CLASS-82-24R	c 14	N72-16283 *
US-PATENT-CLASS-74-105	c 09	N72-22195 *	US-PATENT-CLASS-75-134D	c 76	N79-16678 *	US-PATENT-CLASS-82-36R	c 37	N81-14319 *
US-PATENT-CLASS-74-110	c 44	N83-14693 *	US-PATENT-CLASS-75-135	c 18	N73-32437 *	US-PATENT-CLASS-82-90	c 37	N85-21650 *
US-PATENT-CLASS-74-126	c 15	N71-21529 *	US-PATENT-CLASS-75-135	c 24	N77-27187 *	US-PATENT-CLASS-83-152	c 76	N80-18951 *
US-PATENT-CLASS-74-18.1	c 37	N82-24493 *	US-PATENT-CLASS-75-135	c 26	N80-23419 *	US-PATENT-CLASS-83-203	c 54	N91-26747 *
US-PATENT-CLASS-74-18.2	c 11	N71-27036 *	US-PATENT-CLASS-75-138	c 26	N80-23419 *	US-PATENT-CLASS-83-206	c 54	N91-26747 *
US-PATENT-CLASS-74-18.2	c 37	N82-24493 *	US-PATENT-CLASS-75-139	c 24	N77-27187 *	US-PATENT-CLASS-83-277	c 54	N91-26747 *
US-PATENT-CLASS-74-217R	c 37	N74-23070 *	US-PATENT-CLASS-75-142	c 17	N71-20743 *	US-PATENT-CLASS-83-282	c 54	N91-26747 *
US-PATENT-CLASS-74-2	c 15	N71-24600 *	US-PATENT-CLASS-75-170	c 17	N71-15644 *	US-PATENT-CLASS-83-451	c 37	N77-14478 *
US-PATENT-CLASS-74-2	c 31	N73-14855 *	US-PATENT-CLASS-75-170	c 17	N71-16025 *	US-PATENT-CLASS-83-452	c 39	N74-13131 *
US-PATENT-CLASS-74-384	c 37	N76-15457 *	US-PATENT-CLASS-75-170	c 17	N71-23248 *	US-PATENT-CLASS-83-467R	c 37	N77-14478 *
US-PATENT-CLASS-74-385	c 07	N78-17056 *	US-PATENT-CLASS-75-170	c 17	N72-22535 *	US-PATENT-CLASS-83-467	c 15	N71-22798 *
US-PATENT-CLASS-74-409	c 15	N71-21744 *	US-PATENT-CLASS-75-170	c 37	N77-19458 *	US-PATENT-CLASS-83-522	c 15	N72-27485 *
US-PATENT-CLASS-74-417	c 07	N78-17056 *	US-PATENT-CLASS-75-170	c 26	N77-20201 *	US-PATENT-CLASS-83-562	c 15	N72-27485 *
US-PATENT-CLASS-74-417	c 37	N81-14318 *	US-PATENT-CLASS-75-170	c 26	N77-32279 *	US-PATENT-CLASS-83-563	c 15	N72-27485 *
US-PATENT-CLASS-74-417	c 37	N81-17432 *	US-PATENT-CLASS-75-170	c 26	N77-32280 *	US-PATENT-CLASS-83-588	c 15	N72-27485 *
US-PATENT-CLASS-74-424.8R	c 35	N87-21304 *	US-PATENT-CLASS-75-170	c 26	N78-18183 *	US-PATENT-CLASS-83-602	c 39	N74-13131 *
US-PATENT-CLASS-74-424.8B	c 37	N85-20338 *	US-PATENT-CLASS-75-171	c 17	N70-33283 *	US-PATENT-CLASS-83-614	c 54	N91-26747 *
US-PATENT-CLASS-74-424.8VA	c 37	N75-15050 *	US-PATENT-CLASS-75-171	c 17	N70-36616 *	US-PATENT-CLASS-83-649	c 54	N91-26747 *
US-PATENT-CLASS-74-424.8	c 35	N85-20338 *	US-PATENT-CLASS-75-171	c 17	N71-16026 *	US-PATENT-CLASS-83-664	c 37	N85-21650 *
US-PATENT-CLASS-74-424.8	c 17	N71-26635 *	US-PATENT-CLASS-75-171	c 17	N73-32415 *	US-PATENT-CLASS-83-676	c 37	N85-21650 *
US-PATENT-CLASS-74-425	c 37	N80-32716 *	US-PATENT-CLASS-75-172	c 17	N71-23365 *	US-PATENT-CLASS-83-820	c 37	N80-29703 *
US-PATENT-CLASS-74-436	c 37	N75-13266 *	US-PATENT-CLASS-75-173	c 26	N75-27126 *	US-PATENT-CLASS-83-870	c 76	N80-18951 *
US-PATENT-CLASS-74-441	c 35	N87-21304 *	US-PATENT-CLASS-75-173	c 26	N75-27127 *	US-PATENT-CLASS-83-8	c 15	N72-27485 *
US-PATENT-CLASS-74-458	c 35	N87-21304 *	US-PATENT-CLASS-75-178R	c 04	N76-20114 *	US-PATENT-CLASS-83-917	c 39	N74-13131 *
US-PATENT-CLASS-74-468	c 15	N71-24984 *	US-PATENT-CLASS-75-178R	c 26	N80-23419 *	US-PATENT-CLASS-85-1	c 15	N72-22488 *
US-PATENT-CLASS-74-468	c 35	N87-21304 *	US-PATENT-CLASS-75-20F	c 15	N72-11387 *	US-PATENT-CLASS-85-33	c 15	N71-15922 *
US-PATENT-CLASS-74-469	c 15	N72-21463 *	US-PATENT-CLASS-75-200	c 26	N74-10521 *	US-PATENT-CLASS-85-33	c 15	N71-21489 *
US-PATENT-CLASS-74-469	c 15	N72-28495 *	US-PATENT-CLASS-75-200	c 37	N74-13179 *	US-PATENT-CLASS-85-3	c 15	N71-17653 *
US-PATENT-CLASS-74-471XY	c 54	N75-27760 *	US-PATENT-CLASS-75-200	c 24	N75-13032 *	US-PATENT-CLASS-85-5B	c 15	N72-11385 *
US-PATENT-CLASS-74-471	c 05	N70-41581 *	US-PATENT-CLASS-75-200	c 37	N75-26371 *	US-PATENT-CLASS-85-7	c 15	N71-23254 *
US-PATENT-CLASS-74-471	c 03	N70-42073 *	US-PATENT-CLASS-75-200	c 24	N80-33482 *	US-PATENT-CLASS-859R	c 27	N81-15104 *
US-PATENT-CLASS-74-471	c 15	N71-20740 *	US-PATENT-CLASS-75-202	c 17	N71-15468 *	US-PATENT-CLASS-86-1R	c 28	N77-10213 *
US-PATENT-CLASS-74-479	c 08	N82-24205 *	US-PATENT-CLASS-75-203	c 27	N79-14213 *	US-PATENT-CLASS-86-1R	c 20	N77-17143 *
US-PATENT-CLASS-74-479	c 37	N91-14616 *	US-PATENT-CLASS-75-204	c 18	N71-22894 *	US-PATENT-CLASS-86-1	c 28	N71-26779 *
US-PATENT-CLASS-74-480R	c 05	N75-12930 *	US-PATENT-CLASS-75-205	c 27	N79-14213 *	US-PATENT-CLASS-86-20.2	c 28	N71-26779 *
US-PATENT-CLASS-74-480R	c 08	N82-24205 *	US-PATENT-CLASS-75-206	c 15	N72-25448 *	US-PATENT-CLASS-86-20R	c 20	N77-17143 *
US-PATENT-CLASS-74-5.12	c 31	N71-26537 *	US-PATENT-CLASS-75-206	c 27	N79-14213 *	US-PATENT-CLASS-88-14	c 14	N70-34298 *
US-PATENT-CLASS-74-5.22	c 21	N73-13644 *	US-PATENT-CLASS-75-208R	c 37	N75-26371 *	US-PATENT-CLASS-88-14	c 14	N70-40003 *
US-PATENT-CLASS-74-5.34	c 04	N76-26175 *	US-PATENT-CLASS-75-208	c 18	N72-25539 *	US-PATENT-CLASS-88-14	c 14	N70-41946 *
US-PATENT-CLASS-74-5.34	c 06	N83-33882 *	US-PATENT-CLASS-75-211	c 18	N72-25539 *	US-PATENT-CLASS-88-14	c 14	N70-41955 *
US-PATENT-CLASS-74-5.47	c 21	N71-23289 *	US-PATENT-CLASS-75-212	c 37	N75-26371 *	US-PATENT-CLASS-88-14	c 09	N71-22999 *
US-PATENT-CLASS-74-5.5	c 35	N74-28097 *	US-PATENT-CLASS-75-212	c 27	N79-14213 *	US-PATENT-CLASS-88-16	c 14	N70-33254 *
US-PATENT-CLASS-74-5.5	c 37	N84-28082 *	US-PATENT-CLASS-75-213	c 15	N72-25448 *	US-PATENT-CLASS-88-1	c 21	N70-35427 *
US-PATENT-CLASS-74-5.6D	c 33	N85-29142 *	US-PATENT-CLASS-75-213	c 37	N74-13179 *	US-PATENT-CLASS-88-1	c 21	N71-22880 *
US-PATENT-CLASS-74-5.6	c 35	N74-15094 *	US-PATENT-CLASS-75-214	c 37	N74-13179 *	US-PATENT-CLASS-88-24	c 23	N71-21882 *
US-PATENT-CLASS-74-5.7	c 35	N74-18323 *	US-PATENT-CLASS-75-214	c 37	N75-26371 *	US-PATENT-CLASS-89-1.14	c 37	N87-23983 *
US-PATENT-CLASS-74-5.7	c 15	N76-14158 *	US-PATENT-CLASS-75-222	c 28	N70-38197 *	US-PATENT-CLASS-89-1.14	c 37	N90-21390 *
US-PATENT-CLASS-74-5F	c 15	N73-12488 *	US-PATENT-CLASS-75-222	c 37	N75-26371 *	US-PATENT-CLASS-89-1.14	c 37	N91-32498 *
US-PATENT-CLASS-74-501R	c 15	N72-22485 *	US-PATENT-CLASS-75-222	c 24	N80-33482 *	US-PATENT-CLASS-89-1.34	c 03	N91-15142 *
US-PATENT-CLASS-74-515E	c 54	N78-17676 *	US-PATENT-CLASS-75-225	c 34	N76-27515 *	US-PATENT-CLASS-89-1.5G	c 08	N82-32373 *
US-PATENT-CLASS-74-519	c 03	N70-41954 *	US-PATENT-CLASS-75-226	c 18	N72-25539 *	US-PATENT-CLASS-89-1.54	c 05	N87-14314 *
US-PATENT-CLASS-74-519	c 05	N81-19087 *	US-PATENT-CLASS-75-226	c 26	N74-10521 *	US-PATENT-CLASS-89-1.57	c 37	N85-30334 *
US-PATENT-CLASS-74-572	c 07	N78-33101 *	US-PATENT-CLASS-75-226	c 37	N74-13179 *	US-PATENT-CLASS-89-1.57	c 37	N90-21390 *
US-PATENT-CLASS-74-572	c 37	N79-10422 *	US-PATENT-CLASS-75-226	c 27	N79-14213 *	US-PATENT-CLASS-89-1.57	c 37	N91-32498 *
US-PATENT-CLASS-74-572	c 44	N79-14527 *	US-PATENT-CLASS-75-228	c 24	N90-23493 *	US-PATENT-CLASS-89-1.5	c 31	N71-15675 *
US-PATENT-CLASS-74-572	c 24	N81-29163 *	US-PATENT-CLASS-75-229	c 27	N78-17206 *	US-PATENT-CLASS-89-1.5	c 15	N71-24600 *
US-PATENT-CLASS-74-572	c 35	N89-15379 *	US-PATENT-CLASS-75-239	c 27	N78-17206 *	US-PATENT-CLASS-89-1.7	c 11	N70-38202 *
US-PATENT-CLASS-74-573R	c 37	N84-28082 *	US-PATENT-CLASS-75-241	c 27	N78-17206 *	US-PATENT-CLASS-89-1.7	c 30	N70-40353 *
US-PATENT-CLASS-74-586	c 37	N79-14382 *	US-PATENT-CLASS-75-25	c 28	N81-15119 *	US-PATENT-CLASS-89-1.7	c 03	N71-12258 *
US-PATENT-CLASS-74-58	c 35	N84-22928 *	US-PATENT-CLASS-75-331	c 31	N91-32240 *	US-PATENT-CLASS-89-1.7	c 03	N71-12259 *
US-PATENT-CLASS-74-594.6	c 37	N74-18127 *	US-PATENT-CLASS-75-338	c 31	N91-32240 *	US-PATENT-CLASS-89-1.801	c 20	N76-22296 *
US-PATENT-CLASS-74-594.7	c 37	N74-18127 *	US-PATENT-CLASS-75-340	c 31	N91-32240 *	US-PATENT-CLASS-89-1.806	c 15	N71-24043 *
US-PATENT-CLASS-74-63	c 15	N71-17692 *	US-PATENT-CLASS-75-342	c 31	N91-32240 *	US-PATENT-CLASS-89-1.811	c 15	N72-17455 *
US-PATENT-CLASS-74-661	c 37	N80-32716 *	US-PATENT-CLASS-75-63	c 15	N71-27184 *	US-PATENT-CLASS-89-1B	c 01	N83-35992 *
US-PATENT-CLASS-74-665B	c 37	N76-15457 *	US-PATENT-CLASS-75-65R	c 24	N77-27187 *	US-PATENT-CLASS-89-1	c 03	N70-34667 *
US-PATENT-CLASS-74-665C	c 37	N80-32716 *	US-PATENT-CLASS-75-66	c 17	N71-26773 *	US-PATENT-CLASS-89-1	c 15	N71-16078 *
US-PATENT-CLASS-74-665G	c 37	N91-14616 *	US-PATENT-CLASS-75-66	c 06	N73-13129 *	US-PATENT-CLASS-89-36.02	c 24	N90-21822 *
US-PATENT-CLASS-74-674	c 37	N79-20377 *	US-PATENT-CLASS-75-66	c 17	N73-28573 *	US-PATENT-CLASS-89-36.02	c 18	N92-15114 *
US-PATENT-CLASS-74-675	c 37	N74-27901 *	US-PATENT-CLASS-77.5AQ	c 27	N81-15104 *	US-PATENT-CLASS-89-36.11	c 18	N92-15114 *
US-PATENT-CLASS-74-705	c 37	N79-20377 *	US-PATENT-CLASS-77.5CH	c 27	N81-15104 *	US-PATENT-CLASS-89-8	c 11	N71-18578 *
US-PATENT-CLASS-74-710	c 37	N74-27901 *	US-PATENT-CLASS-78-1	c 15	N70-33330 *	US-PATENT-CLASS-89-8	c 11	N73-32152 *
US-PATENT-CLASS-74-753	c 37	N84-28084 *	US-PATENT-CLASS-788-704	c 36	N79-18307 *	US-PATENT-CLASS-89-8	c 75	N76-14931 *
US-PATENT-CLASS-74-758	c 37	N84-28084 *	US-PATENT-CLASS-8-DIG.12	c 27	N80-26446 *	US-PATENT-CLASS-89-8	c 75	N76-1951 *
US-PATENT-CLASS-74-764	c 37	N79-20377 *	US-PATENT-CLASS-8-DIG.18	c 27	N80-26446 *	US-PATENT-CLASS-89-8	c 09	N79-21084 *
US-PATENT-CLASS-74-800	c 37	N78-17385 *	US-PATENT-CLASS-8-DIG.9	c 25	N86-25428 *	US-PATENT-CLASS-89-8	c 14	N92-15081 *
US-PATENT-CLASS-74-812	c 37	N84-28084 *	US-PATENT-CLASS-8-115.5	c 27	N80-26446 *	US-PATENT-CLASS-9-11A	c 02	N73-26006 *
US-PATENT-CLASS-74-81	c 37	N78-16369 *	US-PATENT-CLASS-8-150	c 09	N82-29330 *	US-PATENT-CLASS-9-11A	c 54	N74-14845 *
US-PATENT-CLASS-74-820	c 37	N75-13266 *	US-PATENT-CLASS-8-3	c 51	N77-27677 *	US-PATENT-CLASS-9-11	c 05	N70-34857 *

US-PATENT-CLASS-9-2A

REPORT NUMBER INDEX

US-PATENT-CLASS-9-2A	c 02	N73-26006 *	US-PATENT-2,837,706	c 15	N71-28952 *	US-PATENT-3,130,940	c 33	N70-33344 *
US-PATENT-CLASS-9-312	c 05	N71-22748 *	US-PATENT-2,898,889	c 02	N71-29128 *	US-PATENT-3,131,040	c 37	N79-21345 *
US-PATENT-CLASS-9-316	c 05	N70-36493 *	US-PATENT-2,903,307	c 15	N71-29136 *	US-PATENT-3,132,342	c 07	N70-38200 *
US-PATENT-CLASS-9-3	c 02	N73-26006 *	US-PATENT-2,926,123	c 33	N71-29151 *	US-PATENT-3,132,476	c 28	N70-34294 *
US-PATENT-CLASS-9-8	c 03	N70-36778 *	US-PATENT-2,934,331	c 15	N70-33382 *	US-PATENT-3,132,479	c 15	N71-28951 *
US-PATENT-CLASS-9-9	c 15	N71-24600 *	US-PATENT-2,940,259	c 28	N70-33241 *	US-PATENT-3,132,903	c 15	N70-38620 *
US-PATENT-CLASS-90-11	c 15	N71-33518 *	US-PATENT-2,944,316	c 15	N71-16076 *	US-PATENT-3,134,389	c 37	N79-33468 *
US-PATENT-CLASS-90-12.5	c 37	N74-25968 *	US-PATENT-2,945,667	c 15	N70-33376 *	US-PATENT-3,135,089	c 28	N70-38504 *
US-PATENT-CLASS-90-12	c 15	N71-22799 *	US-PATENT-2,956,772	c 33	N71-29152 *	US-PATENT-3,135,090	c 28	N70-38505 *
US-PATENT-CLASS-901-19	c 33	N91-31528 *	US-PATENT-2,960,002	c 14	N70-41946 *	US-PATENT-3,136,123	c 28	N70-38199 *
US-PATENT-CLASS-901-1	c 18	N88-23828 *	US-PATENT-2,971,837	c 17	N70-33283 *	US-PATENT-3,138,837	c 17	N70-38198 *
US-PATENT-CLASS-901-25	c 37	N86-20789 *	US-PATENT-2,974,925	c 28	N70-33372 *	US-PATENT-3,139,725	c 28	N70-38645 *
US-PATENT-CLASS-901-28	c 37	N91-17388 *	US-PATENT-2,984,735	c 11	N70-33329 *	US-PATENT-3,140,728	c 15	N70-36908 *
US-PATENT-CLASS-901-30	c 37	N91-31656 *	US-PATENT-2,991,671	c 15	N70-33330 *	US-PATENT-3,141,340	c 11	N70-38196 *
US-PATENT-CLASS-901-31	c 37	N86-19603 *	US-PATENT-2,991,961	c 02	N70-33332 *	US-PATENT-3,141,769	c 28	N70-38197 *
US-PATENT-CLASS-901-31	c 37	N86-20789 *	US-PATENT-2,996,212	c 31	N71-17680 *	US-PATENT-3,141,932	c 03	N70-38713 *
US-PATENT-CLASS-901-33	c 18	N88-23828 *	US-PATENT-2,997,274	c 28	N71-29154 *	US-PATENT-3,143,321	c 15	N70-34850 *
US-PATENT-CLASS-901-33	c 37	N91-21542 *	US-PATENT-3,001,363	c 28	N70-33331 *	US-PATENT-3,143,651	c 14	N70-40240 *
US-PATENT-CLASS-901-37	c 37	N91-21542 *	US-PATENT-3,001,395	c 14	N70-33386 *	US-PATENT-3,144,219	c 31	N70-38676 *
US-PATENT-CLASS-901-38	c 37	N90-20408 *	US-PATENT-3,001,739	c 03	N70-33343 *	US-PATENT-3,144,999	c 02	N70-34856 *
US-PATENT-CLASS-901-38	c 37	N91-14615 *	US-PATENT-3,004,189	c 37	N75-29426 *	US-PATENT-3,145,874	c 11	N71-15960 *
US-PATENT-CLASS-901-39	c 37	N90-20408 *	US-PATENT-3,004,735	c 14	N70-33322 *	US-PATENT-3,147,422	c 09	N70-38712 *
US-PATENT-CLASS-901-39	c 37	N91-14615 *	US-PATENT-3,005,081	c 09	N70-33312 *	US-PATENT-3,149,897	c 09	N70-36494 *
US-PATENT-CLASS-901-42	c 37	N86-21850 *	US-PATENT-3,005,339	c 11	N70-33287 *	US-PATENT-3,150,329	c 09	N70-38995 *
US-PATENT-CLASS-901-47	c 37	N86-21850 *	US-PATENT-3,008,229	c 15	N70-33311 *	US-PATENT-3,150,387	c 03	N70-36778 *
US-PATENT-CLASS-901-47	c 37	N91-21542 *	US-PATENT-3,010,372	c 15	N70-33180 *	US-PATENT-3,152,344	c 05	N70-36493 *
US-PATENT-CLASS-901-50	c 37	N86-19603 *	US-PATENT-3,011,760	c 15	N70-33226 *	US-PATENT-3,155,992	c 05	N70-34857 *
US-PATENT-CLASS-901-6	c 37	N92-22036 *	US-PATENT-3,012,400	c 28	N70-33374 *	US-PATENT-3,156,090	c 28	N70-37245 *
US-PATENT-CLASS-901-9	c 37	N91-21544 *	US-PATENT-3,012,407	c 15	N70-33323 *	US-PATENT-3,157,529	c 18	N70-36400 *
US-PATENT-CLASS-91-186	c 05	N73-32014 *	US-PATENT-3,016,693	c 28	N70-33356 *	US-PATENT-3,158,172	c 15	N70-34817 *
US-PATENT-CLASS-91-325	c 37	N81-32510 *	US-PATENT-3,016,863	c 12	N70-33305 *	US-PATENT-3,158,336	c 31	N70-36410 *
US-PATENT-CLASS-91-341R	c 37	N81-32510 *	US-PATENT-3,022,672	c 14	N70-34816 *	US-PATENT-3,158,764	c 03	N70-36803 *
US-PATENT-CLASS-91-361	c 15	N71-27754 *	US-PATENT-3,024,659	c 14	N70-34820 *	US-PATENT-3,159,967	c 28	N70-36802 *
US-PATENT-CLASS-91-363A	c 15	N73-13466 *	US-PATENT-3,028,122	c 02	N70-33286 *	US-PATENT-3,160,825	c 14	N70-35220 *
US-PATENT-CLASS-91-390	c 15	N71-27147 *	US-PATENT-3,028,126	c 21	N70-33279 *	US-PATENT-3,160,950	c 15	N70-36409 *
US-PATENT-CLASS-91-390	c 15	N71-27754 *	US-PATENT-3,028,128	c 31	N70-33242 *	US-PATENT-3,162,012	c 15	N70-36411 *
US-PATENT-CLASS-91-410	c 37	N81-32510 *	US-PATENT-3,035,333	c 28	N70-41818 *	US-PATENT-3,163,935	c 14	N70-36907 *
US-PATENT-CLASS-91-448	c 15	N71-27754 *	US-PATENT-3,038,077	c 21	N70-33181 *	US-PATENT-3,164,222	c 15	N70-34861 *
US-PATENT-CLASS-91-448	c 15	N73-13466 *	US-PATENT-3,038,175	c 05	N70-33285 *	US-PATENT-3,164,369	c 15	N70-36412 *
US-PATENT-CLASS-91-461	c 15	N71-27147 *	US-PATENT-3,041,587	c 14	N70-33179 *	US-PATENT-3,165,356	c 05	N70-35152 *
US-PATENT-CLASS-92-103F	c 35	N91-21494 *	US-PATENT-3,041,924	c 14	N70-33254 *	US-PATENT-3,166,834	c 15	N70-36901 *
US-PATENT-CLASS-92-103SD	c 35	N91-21494 *	US-PATENT-3,045,424	c 28	N70-40367 *	US-PATENT-3,167,426	c 17	N70-36616 *
US-PATENT-CLASS-92-130R	c 37	N81-33483 *	US-PATENT-3,049,876	c 28	N70-33284 *	US-PATENT-3,168,827	c 14	N70-36807 *
US-PATENT-CLASS-92-176	c 37	N88-23981 *	US-PATENT-3,053,484	c 02	N70-33255 *	US-PATENT-3,169,001	c 02	N70-36825 *
US-PATENT-CLASS-92-208	c 24	N87-27742 *	US-PATENT-3,057,597	c 15	N70-33264 *	US-PATENT-3,169,613	c 15	N70-36947 *
US-PATENT-CLASS-92-212	c 37	N88-23981 *	US-PATENT-3,059,220	c 09	N70-33182 *	US-PATENT-3,169,725	c 31	N70-34296 *
US-PATENT-CLASS-92-212	c 37	N90-22042 *	US-PATENT-3,063,291	c 11	N70-33278 *	US-PATENT-3,170,286	c 15	N70-36535 *
US-PATENT-CLASS-92-213	c 37	N90-22042 *	US-PATENT-3,064,928	c 02	N70-33266 *	US-PATENT-3,170,290	c 28	N70-36910 *
US-PATENT-CLASS-92-214	c 37	N88-23981 *	US-PATENT-3,067,573	c 28	N70-39899 *	US-PATENT-3,170,295	c 27	N71-28929 *
US-PATENT-CLASS-92-222	c 37	N88-23981 *	US-PATENT-3,068,658	c 15	N70-34247 *	US-PATENT-3,170,324	c 14	N70-36824 *
US-PATENT-CLASS-92-222	c 37	N90-22042 *	US-PATENT-3,069,123	c 14	N70-39898 *	US-PATENT-3,170,471	c 32	N70-36536 *
US-PATENT-CLASS-92-224	c 37	N88-23981 *	US-PATENT-3,070,330	c 21	N70-34539 *	US-PATENT-3,170,486	c 15	N70-36492 *
US-PATENT-CLASS-92-248	c 37	N90-22042 *	US-PATENT-3,070,349	c 28	N70-39895 *	US-PATENT-3,170,605	c 15	N70-38996 *
US-PATENT-CLASS-92-37	c 37	N82-24493 *	US-PATENT-3,070,407	c 15	N70-39896 *	US-PATENT-3,170,657	c 02	N70-34858 *
US-PATENT-CLASS-92-49	c 14	N73-13418 *	US-PATENT-3,072,574	c 18	N70-39897 *	US-PATENT-3,170,660	c 02	N70-36804 *
US-PATENT-CLASS-92-94	c 32	N70-41370 *	US-PATENT-3,076,065	c 09	N70-39915 *	US-PATENT-3,170,773	c 17	N70-33288 *
US-PATENT-CLASS-92-98R	c 31	N85-21404 *	US-PATENT-3,077,599	c 07	N70-40202 *	US-PATENT-3,171,060	c 25	N70-33267 *
US-PATENT-CLASS-93-1	c 15	N70-33180 *	US-PATENT-3,079,113	c 02	N70-38009 *	US-PATENT-3,171,081	c 14	N70-35666 *
US-PATENT-CLASS-94-9N	c 27	N81-15104 *	US-PATENT-3,080,711	c 28	N70-38711 *	US-PATENT-3,172,097	c 08	N70-35423 *
US-PATENT-CLASS-95-1.1	c 14	N72-18411 *	US-PATENT-3,083,611	c 21	N70-35427 *	US-PATENT-3,173,246	c 28	N70-33265 *
US-PATENT-CLASS-95-1.1	c 14	N73-26431 *	US-PATENT-3,084,421	c 17	N70-38490 *	US-PATENT-3,173,251	c 28	N70-33375 *
US-PATENT-CLASS-95-11.5R	c 14	N73-19419 *	US-PATENT-3,085,165	c 09	N70-34819 *	US-PATENT-3,173,801	c 32	N79-19186 *
US-PATENT-CLASS-95-11.5	c 14	N73-32319 *	US-PATENT-3,087,692	c 02	N70-34178 *	US-PATENT-3,174,278	c 25	N70-36946 *
US-PATENT-CLASS-95-11R	c 14	N73-19419 *	US-PATENT-3,088,441	c 15	N70-35409 *	US-PATENT-3,174,279	c 28	N70-36806 *
US-PATENT-CLASS-95-11	c 14	N71-18465 *	US-PATENT-3,090,212	c 33	N70-37979 *	US-PATENT-3,174,827	c 26	N70-36805 *
US-PATENT-CLASS-95-11	c 16	N71-33410 *	US-PATENT-3,090,580	c 31	N70-37924 *	US-PATENT-3,175,789	c 31	N70-36654 *
US-PATENT-CLASS-95-11	c 14	N73-32319 *	US-PATENT-3,093,000	c 15	N70-37925 *	US-PATENT-3,176,222	c 14	N70-36618 *
US-PATENT-CLASS-95-12.5	c 31	N72-25842 *	US-PATENT-3,093,346	c 31	N70-37938 *	US-PATENT-3,176,499	c 14	N70-35368 *
US-PATENT-CLASS-95-12.5	c 14	N73-14427 *	US-PATENT-3,098,630	c 02	N70-37939 *	US-PATENT-3,176,933	c 33	N70-36617 *
US-PATENT-CLASS-95-12	c 14	N73-33361 *	US-PATENT-3,100,294	c 09	N70-38998 *	US-PATENT-3,177,933	c 33	N70-36847 *
US-PATENT-CLASS-95-18	c 14	N72-20380 *	US-PATENT-3,100,990	c 14	N70-34813 *	US-PATENT-3,178,883	c 21	N70-36938 *
US-PATENT-CLASS-95-42	c 14	N73-32322 *	US-PATENT-3,102,948	c 15	N70-34814 *	US-PATENT-3,180,264	c 33	N70-36846 *
US-PATENT-CLASS-95-44	c 14	N71-26474 *	US-PATENT-3,104,079	c 31	N70-37986 *	US-PATENT-3,180,587	c 21	N70-36943 *
US-PATENT-CLASS-95-53EA	c 33	N74-20861 *	US-PATENT-3,104,082	c 02	N70-38011 *	US-PATENT-3,181,821	c 31	N70-36845 *
US-PATENT-CLASS-95-53	c 15	N71-21060 *	US-PATENT-3,105,515	c 15	N70-38603 *	US-PATENT-3,182,496	c 11	N70-36913 *
US-PATENT-CLASS-95-58	c 14	N70-40273 *	US-PATENT-3,106,603	c 09	N70-38201 *	US-PATENT-3,183,506	c 07	N70-36911 *
US-PATENT-CLASS-95-59	c 14	N73-14427 *	US-PATENT-3,108,171	c 33	N70-34812 *	US-PATENT-3,185,023	c 14	N70-34298 *
US-PATENT-CLASS-95-89R	c 35	N74-15831 *	US-PATENT-3,110,318	c 12	N70-38997 *	US-PATENT-3,187,583	c 11	N70-38675 *
US-PATENT-CLASS-96-27R	c 35	N79-10389 *	US-PATENT-3,112,672	c 11	N70-38202 *	US-PATENT-3,188,472	c 21	N70-34297 *
US-PATENT-CLASS-96-36.2	c 06	N72-21094 *	US-PATENT-3,115,630	c 31	N70-37981 *	US-PATENT-3,188,844	c 15	N70-34249 *
US-PATENT-CLASS-96-36.2	c 15	N72-25452 *	US-PATENT-3,118,100	c 03	N71-29129 *	US-PATENT-3,189,299	c 21	N70-34295 *
US-PATENT-CLASS-96-38.3	c 35	N74-26946 *	US-PATENT-3,119,086	c 35	N79-33449 *	US-PATENT-3,189,535	c 15	N70-34967 *
US-PATENT-CLASS-96-49	c 14	N71-17574 *	US-PATENT-3,119,232	c 28	N70-37980 *	US-PATENT-3,189,726	c 33	N70-34545 *
US-PATENT-CLASS-96-60R	c 35	N79-10389 *	US-PATENT-3,120,101	c 28	N70-34860 *	US-PATENT-3,189,784	c 33	N75-27250 *
US-PATENT-CLASS-96-79	c 35	N74-26946 *	US-PATENT-3,120,361	c 31	N70-38010 *	US-PATENT-3,189,794	c 09	N70-34502 *
US-PATENT-CLASS-96-87A	c 27	N78-14164 *	US-PATENT-3,120,738	c 28	N70-38249 *	US-PATENT-3,189,864	c 09	N70-34596 *
US-PATENT-CLASS-96-90PC	c 14	N72-22443 *	US-PATENT-3,121,309	c 28	N70-35381 *	US-PATENT-3,190,124	c 35	N79-33450 *
US-PATENT-CLASS-98-1.5	c 44	N78-32539 *	US-PATENT-3,122,000	c 15	N70-38020 *	US-PATENT-3,191,316	c 31	N70-34966 *
US-PATENT-CLASS-98-1	c 54	N78-17679 *	US-PATENT-3,122,098	c 28	N70-38181 *	US-PATENT-3,191,379	c 27	N70-35534 *
US-PATENT-CLASS-98-39	c 31	N74-27902 *	US-PATENT-3,122,885	c 28	N70-38710 *	US-PATENT-3,191,907	c 15	N70-34859 *
US-PATENT-CLASS-99-80PS	c 05	N72-33096 *	US-PATENT-3,123,248	c 11	N70-38182 *	US-PATENT-3,192,730	c 06	N70-34946 *
			US-PATENT-3,123,418	c 37	N79-33467 *	US-PATENT-3,193,883	c 27	N70-34783 *
US-PATENT-DES-228,688	c 05	N74-10907 *	US-PATENT-3,123,692	c 33	N79-33393 *	US-PATENT-3,194,060	c 14	N70-34794 *
			US-PATENT-3,127,157	c 15	N70-38225 *	US-PATENT-3,194,525	c 11	N70-35383 *
US-PATENT-RE-26,548	c 07	N71-12389 *	US-PATENT-3,128,389	c 09	N70-38604 *	US-PATENT-3,194,951	c 08	N70-34778 *
US-PATENT-RE-28,921	c 52	N76-30793 *	US-PATENT-3,128,845	c 15	N70-38601 *	US-PATENT-3,196,261	c 08	N70-34787 *

US-PATENT-3,196,362	c 09	N70-35440 *	US-PATENT-3,258,582	c 02	N71-13421 *	US-PATENT-3,287,660	c 16	N70-41578 *
US-PATENT-3,196,557	c 11	N70-34815 *	US-PATENT-3,258,687	c 14	N71-15962 *	US-PATENT-3,287,725	c 07	N70-41680 *
US-PATENT-3,196,558	c 14	N70-35394 *	US-PATENT-3,258,831	c 15	N71-15986 *	US-PATENT-3,289,205	c 07	N70-41678 *
US-PATENT-3,196,598	c 28	N70-34788 *	US-PATENT-3,258,912	c 27	N71-15634 *	US-PATENT-3,295,360	c 14	N70-41646 *
US-PATENT-3,196,675	c 14	N70-34818 *	US-PATENT-3,258,918	c 27	N71-15635 *	US-PATENT-3,295,366	c 11	N70-41677 *
US-PATENT-3,196,690	c 11	N70-34786 *	US-PATENT-3,260,055	c 23	N71-15467 *	US-PATENT-3,295,377	c 14	N70-41682 *
US-PATENT-3,197,616	c 14	N71-28958 *	US-PATENT-3,260,204	c 31	N71-15692 *	US-PATENT-3,295,386	c 05	N70-41581 *
US-PATENT-3,198,955	c 08	N70-34743 *	US-PATENT-3,260,326	c 11	N71-28779 *	US-PATENT-3,295,512	c 03	N70-41580 *
US-PATENT-3,198,994	c 26	N73-28710 *	US-PATENT-3,261,210	c 14	N71-15969 *	US-PATENT-3,295,545	c 15	N70-41646 *
US-PATENT-3,199,340	c 14	N70-34799 *	US-PATENT-3,262,025	c 15	N73-32361 *	US-PATENT-3,295,556	c 32	N70-41579 *
US-PATENT-3,199,343	c 11	N70-34844 *	US-PATENT-3,262,186	c 15	N71-16052 *	US-PATENT-3,295,594	c 54	N82-29002 *
US-PATENT-3,199,931	c 15	N70-34664 *	US-PATENT-3,262,262	c 28	N71-15661 *	US-PATENT-3,295,684	c 28	N70-41447 *
US-PATENT-3,200,706	c 03	N70-34667 *	US-PATENT-3,262,351	c 15	N71-15922 *	US-PATENT-3,295,699	c 32	N70-41367 *
US-PATENT-3,201,560	c 33	N70-34540 *	US-PATENT-3,262,365	c 31	N71-15675 *	US-PATENT-3,295,782	c 14	N70-41647 *
US-PATENT-3,201,635	c 25	N70-34661 *	US-PATENT-3,262,395	c 15	N71-30028 *	US-PATENT-3,295,790	c 31	N70-41588 *
US-PATENT-3,201,980	c 14	N70-40203 *	US-PATENT-3,262,518	c 05	N71-11199 *	US-PATENT-3,295,798	c 02	N70-41589 *
US-PATENT-3,202,381	c 31	N70-34176 *	US-PATENT-3,262,655	c 31	N71-15663 *	US-PATENT-3,295,808	c 15	N70-41310 *
US-PATENT-3,202,398	c 28	N71-28928 *	US-PATENT-3,262,694	c 44	N79-19447 *	US-PATENT-3,296,060	c 18	N70-41583 *
US-PATENT-3,202,844	c 03	N70-34134 *	US-PATENT-3,263,016	c 33	N71-15625 *	US-PATENT-3,296,526	c 14	N70-41332 *
US-PATENT-3,202,915	c 14	N70-38602 *	US-PATENT-3,263,171	c 09	N71-13530 *	US-PATENT-3,296,531	c 07	N70-41331 *
US-PATENT-3,202,998	c 31	N70-34135 *	US-PATENT-3,263,610	c 15	N71-13789 *	US-PATENT-3,298,175	c 33	N71-29053 *
US-PATENT-3,204,447	c 14	N70-34156 *	US-PATENT-3,264,135	c 15	N71-16075 *	US-PATENT-3,298,182	c 28	N70-41311 *
US-PATENT-3,204,889	c 03	N70-34157 *	US-PATENT-3,270,441	c 11	N71-16028 *	US-PATENT-3,298,221	c 14	N70-41330 *
US-PATENT-3,205,361	c 14	N70-34158 *	US-PATENT-3,270,499	c 28	N71-15660 *	US-PATENT-3,298,285	c 32	N70-41370 *
US-PATENT-3,205,362	c 21	N70-35089 *	US-PATENT-3,270,501	c 31	N71-15647 *	US-PATENT-3,298,362	c 05	N70-41329 *
US-PATENT-3,205,381	c 03	N70-35408 *	US-PATENT-3,270,503	c 33	N71-15623 *	US-PATENT-3,298,582	c 14	N71-28935 *
US-PATENT-3,206,141	c 21	N70-35395 *	US-PATENT-3,270,504	c 31	N71-15637 *	US-PATENT-3,299,364	c 16	N71-15550 *
US-PATENT-3,206,897	c 18	N75-27040 *	US-PATENT-3,270,505	c 21	N71-15582 *	US-PATENT-3,299,431	c 07	N71-28979 *
US-PATENT-3,208,215	c 28	N70-34162 *	US-PATENT-3,270,512	c 15	N71-15906 *	US-PATENT-3,299,913	c 15	N71-15918 *
US-PATENT-3,208,272	c 14	N70-34161 *	US-PATENT-3,270,565	c 14	N71-30265 *	US-PATENT-3,300,162	c 31	N70-41373 *
US-PATENT-3,208,694	c 02	N70-34160 *	US-PATENT-3,270,756	c 15	N71-15967 *	US-PATENT-3,300,731	c 07	N70-41372 *
US-PATENT-3,208,707	c 31	N70-34159 *	US-PATENT-3,270,802	c 33	N71-24876 *	US-PATENT-3,300,847	c 15	N70-41371 *
US-PATENT-3,209,360	c 09	N70-35219 *	US-PATENT-3,270,835	c 28	N70-41582 *	US-PATENT-3,300,949	c 05	N70-41297 *
US-PATENT-3,209,361	c 09	N70-35425 *	US-PATENT-3,270,908	c 31	N71-15664 *	US-PATENT-3,300,981	c 28	N70-41275 *
US-PATENT-3,210,927	c 28	N70-34175 *	US-PATENT-3,270,985	c 21	N71-15583 *	US-PATENT-3,301,046	c 14	N70-41366 *
US-PATENT-3,211,169	c 15	N70-35087 *	US-PATENT-3,270,986	c 05	N71-12336 *	US-PATENT-3,301,315	c 09	N70-41717 *
US-PATENT-3,211,414	c 15	N70-35407 *	US-PATENT-3,270,988	c 01	N71-13410 *	US-PATENT-3,301,507	c 31	N70-41631 *
US-PATENT-3,212,096	c 09	N70-35382 *	US-PATENT-3,270,989	c 02	N71-11041 *	US-PATENT-3,301,511	c 02	N70-41630 *
US-PATENT-3,212,259	c 28	N71-29153 *	US-PATENT-3,270,990	c 28	N71-15563 *	US-PATENT-3,301,578	c 15	N70-41629 *
US-PATENT-3,212,325	c 14	N70-34705 *	US-PATENT-3,271,140	c 17	N71-15644 *	US-PATENT-3,302,023	c 14	N70-41676 *
US-PATENT-3,212,564	c 33	N71-29052 *	US-PATENT-3,271,181	c 15	N71-16077 *	US-PATENT-3,302,040	c 09	N70-41675 *
US-PATENT-3,215,313	c 31	N79-21225 *	US-PATENT-3,271,532	c 09	N71-16089 *	US-PATENT-3,302,569	c 15	N70-41679 *
US-PATENT-3,215,572	c 12	N70-40124 *	US-PATENT-3,271,558	c 15	N71-15871 *	US-PATENT-3,302,633	c 05	N70-41819 *
US-PATENT-3,216,007	c 08	N70-40125 *	US-PATENT-3,271,594	c 10	N71-28739 *	US-PATENT-3,302,662	c 15	N70-41811 *
US-PATENT-3,217,624	c 14	N70-40273 *	US-PATENT-3,271,620	c 09	N71-12540 *	US-PATENT-3,302,960	c 15	N70-41829 *
US-PATENT-3,218,479	c 09	N70-40272 *	US-PATENT-3,271,637	c 26	N71-18064 *	US-PATENT-3,303,304	c 14	N70-41812 *
US-PATENT-3,218,547	c 09	N70-40123 *	US-PATENT-3,271,649	c 10	N71-16030 *	US-PATENT-3,304,028	c 31	N70-41855 *
US-PATENT-3,218,850	c 14	N70-40400 *	US-PATENT-3,273,094	c 23	N71-29049 *	US-PATENT-3,304,718	c 28	N70-41922 *
US-PATENT-3,219,250	c 15	N70-40204 *	US-PATENT-3,273,355	c 33	N71-17897 *	US-PATENT-3,304,724	c 31	N70-41948 *
US-PATENT-3,219,365	c 15	N71-28937 *	US-PATENT-3,273,381	c 32	N71-17645 *	US-PATENT-3,304,729	c 31	N70-41871 *
US-PATENT-3,219,997	c 08	N73-28045 *	US-PATENT-3,273,388	c 09	N71-16086 *	US-PATENT-3,304,768	c 32	N70-42003 *
US-PATENT-3,220,004	c 30	N70-40309 *	US-PATENT-3,273,392	c 23	N71-17802 *	US-PATENT-3,304,773	c 14	N70-41957 *
US-PATENT-3,221,547	c 14	N70-40201 *	US-PATENT-3,273,399	c 12	N71-24692 *	US-PATENT-3,304,799	c 03	N70-41954 *
US-PATENT-3,221,549	c 14	N70-40157 *	US-PATENT-3,274,304	c 26	N71-17818 *	US-PATENT-3,304,865	c 28	N70-41967 *
US-PATENT-3,223,374	c 15	N70-40156 *	US-PATENT-3,275,794	c 37	N75-27376 *	US-PATENT-3,305,415	c 27	N70-41897 *
US-PATENT-3,224,001	c 07	N70-40063 *	US-PATENT-3,276,251	c 11	N71-15926 *	US-PATENT-3,305,636	c 08	N70-41961 *
US-PATENT-3,224,173	c 15	N70-40062 *	US-PATENT-3,276,376	c 31	N71-17629 *	US-PATENT-3,305,801	c 10	N70-41964 *
US-PATENT-3,224,263	c 15	N70-40180 *	US-PATENT-3,276,602	c 32	N71-17609 *	US-PATENT-3,305,810	c 09	N70-41929 *
US-PATENT-3,224,336	c 30	N70-40353 *	US-PATENT-3,276,679	c 15	N71-16079 *	US-PATENT-3,305,861	c 21	N70-41930 *
US-PATENT-3,224,337	c 09	N79-21084 *	US-PATENT-3,276,722	c 02	N71-16087 *	US-PATENT-3,305,870	c 07	N71-15907 *
US-PATENT-3,228,492	c 15	N70-40354 *	US-PATENT-3,276,726	c 31	N71-16081 *	US-PATENT-3,306,134	c 37	N78-17385 *
US-PATENT-3,228,558	c 14	N70-40233 *	US-PATENT-3,276,865	c 17	N71-16025 *	US-PATENT-3,308,848	c 12	N71-16031 *
US-PATENT-3,229,099	c 14	N70-40238 *	US-PATENT-3,276,866	c 17	N71-16026 *	US-PATENT-3,309,012	c 33	N71-17610 *
US-PATENT-3,229,102	c 14	N70-40239 *	US-PATENT-3,276,946	c 23	N71-15978 *	US-PATENT-3,309,961	c 15	N71-16078 *
US-PATENT-3,229,139	c 28	N70-39925 *	US-PATENT-3,277,314	c 10	N71-16042 *	US-PATENT-3,310,054	c 08	N71-15908 *
US-PATENT-3,229,155	c 25	N70-41628 *	US-PATENT-3,277,366	c 10	N71-16057 *	US-PATENT-3,310,138	c 12	N71-16894 *
US-PATENT-3,229,463	c 28	N70-39931 *	US-PATENT-3,277,373	c 07	N71-16088 *	US-PATENT-3,310,256	c 31	N71-17679 *
US-PATENT-3,229,568	c 14	N70-40003 *	US-PATENT-3,277,375	c 07	N71-11284 *	US-PATENT-3,310,258	c 31	N71-17691 *
US-PATENT-3,229,636	c 03	N70-39930 *	US-PATENT-3,277,458	c 10	N71-16058 *	US-PATENT-3,310,261	c 02	N71-11038 *
US-PATENT-3,229,682	c 09	N70-40234 *	US-PATENT-3,277,486	c 31	N71-10747 *	US-PATENT-3,310,262	c 02	N71-12243 *
US-PATENT-3,229,689	c 05	N70-39922 *	US-PATENT-3,279,193	c 33	N71-28852 *	US-PATENT-3,310,443	c 24	N71-10560 *
US-PATENT-3,229,884	c 15	N70-39924 *	US-PATENT-3,281,558	c 33	N75-27249 *	US-PATENT-3,310,699	c 14	N73-32324 *
US-PATENT-3,229,905	c 04	N78-17031 *	US-PATENT-3,281,963	c 11	N71-10746 *	US-PATENT-3,310,765	c 33	N79-21264 *
US-PATENT-3,229,930	c 30	N70-40016 *	US-PATENT-3,281,964	c 11	N71-10776 *	US-PATENT-3,310,978	c 14	N71-10616 *
US-PATENT-3,230,053	c 26	N70-40015 *	US-PATENT-3,281,965	c 11	N71-10748 *	US-PATENT-3,310,980	c 11	N71-10604 *
US-PATENT-3,233,862	c 37	N79-33469 *	US-PATENT-3,282,035	c 11	N71-10777 *	US-PATENT-3,311,315	c 07	N71-10609 *
US-PATENT-3,236,066	c 15	N71-28959 *	US-PATENT-3,282,091	c 14	N71-10781 *	US-PATENT-3,311,502	c 03	N71-10608 *
US-PATENT-3,237,253	c 15	N71-15966 *	US-PATENT-3,282,532	c 31	N71-17729 *	US-PATENT-3,311,510	c 26	N71-10607 *
US-PATENT-3,238,345	c 11	N71-15925 *	US-PATENT-3,282,541	c 31	N71-24750 *	US-PATENT-3,311,571	c 27	N79-21190 *
US-PATENT-3,238,413	c 25	N71-29184 *	US-PATENT-3,282,739	c 03	N71-11053 *	US-PATENT-3,311,748	c 21	N71-10678 *
US-PATENT-3,238,715	c 28	N71-14043 *	US-PATENT-3,282,740	c 03	N71-11051 *	US-PATENT-3,311,772	c 09	N71-10618 *
US-PATENT-3,238,730	c 03	N71-12260 *	US-PATENT-3,283,088	c 10	N71-15909 *	US-PATENT-3,311,832	c 07	N71-10775 *
US-PATENT-3,238,774	c 14	N71-14996 *	US-PATENT-3,283,175	c 10	N71-15910 *	US-PATENT-3,312,101	c 14	N71-10774 *
US-PATENT-3,238,777	c 14	N71-15598 *	US-PATENT-3,283,241	c 14	N71-16014 *	US-PATENT-3,313,204	c 28	N73-24783 *
US-PATENT-3,239,660	c 23	N71-30292 *	US-PATENT-3,286,274	c 05	N71-12335 *	US-PATENT-3,316,716	c 28	N71-10780 *
US-PATENT-3,242,716	c 14	N71-15992 *	US-PATENT-3,286,531	c 30	N71-17788 *	US-PATENT-3,316,752	c 14	N71-10779 *
US-PATENT-3,243,154	c 23	N71-15673 *	US-PATENT-3,286,629	c 31	N71-17730 *	US-PATENT-3,316,991	c 14	N71-10773 *
US-PATENT-3,243,791	c 07	N71-11298 *	US-PATENT-3,286,630	c 31	N71-10582 *	US-PATENT-3,317,180	c 15	N71-10778 *
US-PATENT-3,244,943	c 15	N73-28516 *	US-PATENT-3,286,882	c 27	N71-29155 *	US-PATENT-3,317,341	c 18	N71-10772 *
US-PATENT-3,249,012	c 03	N71-12258 *	US-PATENT-3,286,953	c 21	N70-41856 *	US-PATENT-3,317,352	c 03	N71-10728 *
US-PATENT-3,249,013	c 03	N71-12259 *	US-PATENT-3,286,957	c 02	N70-41863 *	US-PATENT-3,317,641	c 15	N71-10672 *
US-PATENT-3,251,053	c 08	N71-12501 *	US-PATENT-3,287,031	c 15	N70-41808 *	US-PATENT-3,317,731	c 21	N71-10771 *
US-PATENT-3,252,100	c 10	N71-28960 *	US-PATENT-3,287,174	c 03	N70-41864 *	US-PATENT-3,317,751	c 09	N71-10673 *
US-PATENT-3,254,395	c 28	N71-15658 *	US-PATENT-3,287,496	c 14	N70-41807 *	US-PATENT-3,317,797	c 10	N71-28783 *
US-PATENT-3,254,487	c 28	N71-15659 *	US-PATENT-3,287,582	c 28	N70-41576 *	US-PATENT-3,317,832	c 09	N71-10659 *
US-PATENT-3,257,780	c 15	N71-15968 *	US-PATENT-3,287,640	c 09	N70-41655 *	US-PATENT-3,318,093	c 15	N71-10658 *

US-PATENT-3,318,096	c 28	N71-28849 *	US-PATENT-3,348,152	c 10	N71-20841 *	US-PATENT-3,380,042	c 07	N71-23001 *
US-PATENT-3,318,343	c 15	N71-10809 *	US-PATENT-3,348,218	c 10	N71-29135 *	US-PATENT-3,380,049	c 10	N71-23099 *
US-PATENT-3,318,622	c 15	N71-10799 *	US-PATENT-3,349,814	c 33	N71-20834 *	US-PATENT-3,381,339	c 06	N71-22975 *
US-PATENT-3,319,175	c 09	N71-10798 *	US-PATENT-3,350,033	c 14	N71-21082 *	US-PATENT-3,381,517	c 09	N71-22988 *
US-PATENT-3,319,979	c 15	N71-10782 *	US-PATENT-3,350,034	c 31	N71-21064 *	US-PATENT-3,381,527	c 15	N71-22878 *
US-PATENT-3,320,669	c 15	N70-42017 *	US-PATENT-3,350,643	c 07	N71-20791 *	US-PATENT-3,381,569	c 21	N71-22880 *
US-PATENT-3,321,034	c 15	N70-42034 *	US-PATENT-3,350,671	c 09	N71-20842 *	US-PATENT-3,381,778	c 15	N71-22877 *
US-PATENT-3,321,154	c 31	N70-42075 *	US-PATENT-3,350,926	c 14	N71-21091 *	US-PATENT-3,382,082	c 18	N71-22998 *
US-PATENT-3,321,157	c 02	N70-42016 *	US-PATENT-3,352,157	c 14	N71-21072 *	US-PATENT-3,382,105	c 03	N71-29044 *
US-PATENT-3,321,159	c 31	N70-42015 *	US-PATENT-3,352,192	c 15	N71-21489 *	US-PATENT-3,382,107	c 03	N71-22974 *
US-PATENT-3,321,570	c 15	N70-41960 *	US-PATENT-3,352,774	c 37	N80-14395 *	US-PATENT-3,382,714	c 14	N71-22989 *
US-PATENT-3,321,628	c 10	N70-41991 *	US-PATENT-3,353,359	c 28	N71-20942 *	US-PATENT-3,383,461	c 07	N71-23026 *
US-PATENT-3,321,645	c 10	N70-42032 *	US-PATENT-3,354,098	c 06	N71-20717 *	US-PATENT-3,383,524	c 10	N71-23029 *
US-PATENT-3,321,922	c 28	N70-41992 *	US-PATENT-3,354,320	c 23	N71-21821 *	US-PATENT-3,383,903	c 14	N71-23036 *
US-PATENT-3,323,356	c 15	N70-41993 *	US-PATENT-3,354,462	c 14	N71-21006 *	US-PATENT-3,383,922	c 14	N71-22752 *
US-PATENT-3,323,362	c 14	N70-41994 *	US-PATENT-3,355,861	c 18	N71-20742 *	US-PATENT-3,384,016	c 31	N71-23008 *
US-PATENT-3,323,370	c 05	N70-42000 *	US-PATENT-3,355,948	c 14	N71-21007 *	US-PATENT-3,384,075	c 05	N71-22896 *
US-PATENT-3,323,386	c 03	N70-42073 *	US-PATENT-3,356,320	c 05	N71-20718 *	US-PATENT-3,384,111	c 15	N71-22706 *
US-PATENT-3,323,408	c 14	N70-41955 *	US-PATENT-3,356,549	c 15	N71-21404 *	US-PATENT-3,384,324	c 33	N71-22792 *
US-PATENT-3,323,484	c 14	N70-42074 *	US-PATENT-3,356,885	c 25	N71-20747 *	US-PATENT-3,384,820	c 09	N71-23021 *
US-PATENT-3,323,484	c 15	N70-42033 *	US-PATENT-3,356,917	c 33	N79-21265 *	US-PATENT-3,384,895	c 07	N71-22984 *
US-PATENT-3,323,967	c 09	N71-10677 *	US-PATENT-3,357,024	c 12	N71-20815 *	US-PATENT-3,385,036	c 15	N71-22721 *
US-PATENT-3,324,370	c 14	N71-10797 *	US-PATENT-3,357,093	c 15	N71-21078 *	US-PATENT-3,386,337	c 15	N71-22799 *
US-PATENT-3,324,423	c 07	N71-10676 *	US-PATENT-3,357,237	c 33	N71-21586 *	US-PATENT-3,386,685	c 31	N71-22968 *
US-PATENT-3,324,659	c 28	N71-10574 *	US-PATENT-3,357,862	c 03	N71-20904 *	US-PATENT-3,386,686	c 31	N71-22969 *
US-PATENT-3,325,229	c 15	N71-10617 *	US-PATENT-3,358,264	c 09	N71-20851 *	US-PATENT-3,387,149	c 14	N71-22993 *
US-PATENT-3,325,723	c 10	N71-10578 *	US-PATENT-3,359,046	c 15	N71-20739 *	US-PATENT-3,387,218	c 37	N78-17386 *
US-PATENT-3,325,749	c 09	N71-28810 *	US-PATENT-3,359,132	c 09	N71-20705 *	US-PATENT-3,388,258	c 14	N71-22996 *
US-PATENT-3,326,043	c 14	N71-10500 *	US-PATENT-3,359,409	c 07	N71-21476 *	US-PATENT-3,388,387	c 10	N71-23033 *
US-PATENT-3,326,407	c 15	N71-10577 *	US-PATENT-3,359,435	c 15	N71-21311 *	US-PATENT-3,388,590	c 14	N71-23087 *
US-PATENT-3,327,298	c 08	N71-21042 *	US-PATENT-3,359,555	c 09	N71-20864 *	US-PATENT-3,389,017	c 15	N71-23022 *
US-PATENT-3,327,991	c 15	N71-21234 *	US-PATENT-3,359,568	c 54	N78-17680 *	US-PATENT-3,389,260	c 14	N71-23269 *
US-PATENT-3,328,624	c 28	N71-28850 *	US-PATENT-3,359,819	c 15	N71-21744 *	US-PATENT-3,389,346	c 10	N71-28859 *
US-PATENT-3,329,375	c 21	N71-21708 *	US-PATENT-3,359,855	c 23	N71-21882 *	US-PATENT-3,389,877	c 15	N71-28936 *
US-PATENT-3,329,918	c 09	N71-21583 *	US-PATENT-3,360,798	c 09	N71-20658 *	US-PATENT-3,390,017	c 03	N71-23336 *
US-PATENT-3,330,052	c 11	N71-21474 *	US-PATENT-3,360,864	c 14	N71-24693 *	US-PATENT-3,390,020	c 26	N71-23654 *
US-PATENT-3,330,082	c 15	N71-21531 *	US-PATENT-3,360,972	c 15	N71-24833 *	US-PATENT-3,390,023	c 26	N75-29236 *
US-PATENT-3,330,510	c 31	N71-28851 *	US-PATENT-3,360,980	c 14	N71-20741 *	US-PATENT-3,390,282	c 09	N71-23311 *
US-PATENT-3,330,549	c 15	N71-21530 *	US-PATENT-3,360,988	c 09	N71-20816 *	US-PATENT-3,390,378	c 08	N71-23295 *
US-PATENT-3,331,071	c 07	N71-28900 *	US-PATENT-3,361,045	c 15	N71-21060 *	US-PATENT-3,390,528	c 20	N79-21124 *
US-PATENT-3,331,246	c 11	N71-21475 *	US-PATENT-3,361,067	c 26	N71-21824 *	US-PATENT-3,391,080	c 15	N71-24046 *
US-PATENT-3,331,255	c 15	N71-21529 *	US-PATENT-3,361,400	c 15	N71-20813 *	US-PATENT-3,392,403	c 23	N71-23976 *
US-PATENT-3,331,404	c 12	N71-21089 *	US-PATENT-3,361,666	c 15	N71-21403 *	US-PATENT-3,392,586	c 14	N71-24232 *
US-PATENT-3,331,951	c 21	N71-21688 *	US-PATENT-3,361,985	c 10	N71-20852 *	US-PATENT-3,392,864	c 18	N71-23658 *
US-PATENT-3,333,152	c 25	N71-21693 *	US-PATENT-3,364,311	c 07	N71-20814 *	US-PATENT-3,392,865	c 15	N71-23816 *
US-PATENT-3,333,788	c 31	N71-21881 *	US-PATENT-3,364,366	c 09	N71-28926 *	US-PATENT-3,392,936	c 01	N71-23497 *
US-PATENT-3,334,225	c 14	N73-32325 *	US-PATENT-3,364,578	c 14	N71-21079 *	US-PATENT-3,393,059	c 06	N71-23499 *
US-PATENT-3,336,725	c 15	N71-21528 *	US-PATENT-3,364,631	c 32	N71-21045 *	US-PATENT-3,393,330	c 22	N71-23599 *
US-PATENT-3,336,748	c 25	N71-21694 *	US-PATENT-3,364,777	c 15	N71-20740 *	US-PATENT-3,393,332	c 09	N71-23443 *
US-PATENT-3,336,754	c 28	N71-22983 *	US-PATENT-3,364,813	c 09	N71-22999 *	US-PATENT-3,393,347	c 10	N71-23543 *
US-PATENT-3,337,004	c 14	N71-23092 *	US-PATENT-3,365,657	c 10	N71-22961 *	US-PATENT-3,393,380	c 10	N71-23544 *
US-PATENT-3,337,279	c 05	N71-23080 *	US-PATENT-3,365,665	c 14	N71-23037 *	US-PATENT-3,393,384	c 09	N71-23573 *
US-PATENT-3,337,315	c 18	N71-23088 *	US-PATENT-3,365,897	c 33	N71-28992 *	US-PATENT-3,394,286	c 14	N73-30391 *
US-PATENT-3,337,337	c 18	N71-22894 *	US-PATENT-3,365,930	c 14	N71-22964 *	US-PATENT-3,394,359	c 08	N71-28925 *
US-PATENT-3,337,790	c 12	N71-20896 *	US-PATENT-3,365,941	c 14	N71-22965 *	US-PATENT-3,394,975	c 23	N71-30027 *
US-PATENT-3,337,812	c 09	N71-23097 *	US-PATENT-3,366,886	c 10	N71-22962 *	US-PATENT-3,395,053	c 18	N71-23047 *
US-PATENT-3,339,404	c 14	N71-22765 *	US-PATENT-3,366,894	c 10	N71-23084 *	US-PATENT-3,395,565	c 14	N73-30390 *
US-PATENT-3,339,863	c 14	N71-23040 *	US-PATENT-3,367,114	c 28	N71-23081 *	US-PATENT-3,396,057	c 26	N71-23043 *
US-PATENT-3,340,099	c 03	N71-23006 *	US-PATENT-3,367,121	c 15	N71-23025 *	US-PATENT-3,396,184	c 06	N71-28808 *
US-PATENT-3,340,395	c 14	N71-23041 *	US-PATENT-3,367,182	c 33	N71-23085 *	US-PATENT-3,396,303	c 09	N71-22987 *
US-PATENT-3,340,397	c 11	N71-23042 *	US-PATENT-3,367,224	c 15	N71-22798 *	US-PATENT-3,396,584	c 14	N71-30026 *
US-PATENT-3,340,430	c 09	N71-22796 *	US-PATENT-3,367,271	c 15	N71-24042 *	US-PATENT-3,396,719	c 52	N79-21750 *
US-PATENT-3,340,532	c 10	N71-21473 *	US-PATENT-3,367,308	c 11	N71-22875 *	US-PATENT-3,396,920	c 31	N71-29050 *
US-PATENT-3,340,599	c 09	N71-23027 *	US-PATENT-3,367,445	c 15	N71-23048 *	US-PATENT-3,397,094	c 26	N71-29156 *
US-PATENT-3,340,713	c 15	N71-22723 *	US-PATENT-3,368,486	c 15	N71-22874 *	US-PATENT-3,397,117	c 15	N71-23086 *
US-PATENT-3,340,732	c 02	N71-23007 *	US-PATENT-3,369,222	c 08	N71-22707 *	US-PATENT-3,397,318	c 14	N71-22991 *
US-PATENT-3,341,151	c 31	N71-23009 *	US-PATENT-3,369,223	c 08	N71-22710 *	US-PATENT-3,397,512	c 15	N71-23023 *
US-PATENT-3,341,169	c 15	N71-23024 *	US-PATENT-3,369,564	c 15	N71-23051 *	US-PATENT-3,397,537	c 20	N79-21125 *
US-PATENT-3,341,708	c 16	N71-22895 *	US-PATENT-3,370,039	c 06	N71-28807 *	US-PATENT-3,397,932	c 15	N71-22982 *
US-PATENT-3,341,778	c 07	N71-23098 *	US-PATENT-3,372,588	c 33	N71-29051 *	US-PATENT-3,399,299	c 10	N71-23662 *
US-PATENT-3,341,977	c 15	N71-22705 *	US-PATENT-3,373,016	c 26	N75-27127 *	US-PATENT-3,399,574	c 32	N71-24285 *
US-PATENT-3,342,055	c 15	N71-22797 *	US-PATENT-3,373,069	c 15	N71-23052 *	US-PATENT-3,402,265	c 09	N73-28084 *
US-PATENT-3,342,066	c 11	N71-23030 *	US-PATENT-3,373,404	c 08	N71-22749 *	US-PATENT-3,404,289	c 09	N71-23545 *
US-PATENT-3,342,653	c 15	N71-22713 *	US-PATENT-3,373,430	c 09	N71-22888 *	US-PATENT-3,404,348	c 32	N74-22096 *
US-PATENT-3,343,180	c 05	N71-23159 *	US-PATENT-3,373,431	c 07	N71-22750 *	US-PATENT-3,405,406	c 05	N71-23161 *
US-PATENT-3,343,189	c 05	N71-22748 *	US-PATENT-3,373,640	c 15	N71-22722 *	US-PATENT-3,405,887	c 31	N71-24315 *
US-PATENT-3,344,340	c 09	N71-21449 *	US-PATENT-3,373,914	c 15	N71-23050 *	US-PATENT-3,406,336	c 10	N71-24863 *
US-PATENT-3,344,425	c 10	N71-21483 *	US-PATENT-3,374,339	c 08	N71-22897 *	US-PATENT-3,406,742	c 33	N71-24276 *
US-PATENT-3,345,820	c 28	N71-21822 *	US-PATENT-3,374,366	c 09	N71-23015 *	US-PATENT-3,407,304	c 14	N71-23240 *
US-PATENT-3,345,822	c 27	N71-21819 *	US-PATENT-3,374,830	c 33	N71-22890 *	US-PATENT-3,408,816	c 28	N71-24736 *
US-PATENT-3,345,840	c 15	N71-21536 *	US-PATENT-3,375,451	c 10	N71-22986 *	US-PATENT-3,408,870	c 14	N71-23227 *
US-PATENT-3,345,866	c 11	N71-21481 *	US-PATENT-3,375,479	c 15	N71-23049 *	US-PATENT-3,409,247	c 33	N71-28903 *
US-PATENT-3,346,419	c 03	N71-20895 *	US-PATENT-3,375,712	c 35	N75-29382 *	US-PATENT-3,409,252	c 15	N71-23255 *
US-PATENT-3,346,442	c 18	N71-21651 *	US-PATENT-3,375,885	c 15	N73-32362 *	US-PATENT-3,409,554	c 26	N71-23292 *
US-PATENT-3,346,442	c 06	N71-20905 *	US-PATENT-3,376,730	c 14	N71-22995 *	US-PATENT-3,409,730	c 33	N71-24145 *
US-PATENT-3,346,515	c 15	N71-21179 *	US-PATENT-3,377,208	c 14	N71-23039 *	US-PATENT-3,411,356	c 14	N71-23226 *
US-PATENT-3,346,724	c 14	N71-21090 *	US-PATENT-3,377,845	c 15	N71-22992 *	US-PATENT-3,411,900	c 26	N75-27126 *
US-PATENT-3,346,929	c 15	N71-21076 *	US-PATENT-3,378,315	c 15	N71-22997 *	US-PATENT-3,412,559	c 28	N71-23293 *
US-PATENT-3,347,046	c 33	N71-21507 *	US-PATENT-3,378,657	c 33	N79-33392 *	US-PATENT-3,412,598	c 14	N71-23225 *
US-PATENT-3,347,309	c 33	N71-29046 *	US-PATENT-3,378,851	c 05	N71-23096 *	US-PATENT-3,412,729	c 04	N71-23185 *
US-PATENT-3,347,465	c 18	N71-21068 *	US-PATENT-3,378,892	c 15	N71-22994 *	US-PATENT-3,412,961	c 32	N71-23971 *
US-PATENT-3,347,466	c 28	N71-21493 *	US-PATENT-3,379,052	c 14	N73-32321 *	US-PATENT-3,413,115	c 17	N71-23365 *
US-PATENT-3,347,531	c 15	N71-21177 *	US-PATENT-3,379,064	c 14	N71-23093 *	US-PATENT-3,413,393	c 17	N71-29137 *
US-PATENT-3,347,665	c 17	N71-20743 *	US-PATENT-3,379,330	c 23	N71-22881 *	US-PATENT-3,413,510	c 09	N71-23190 *
US-PATENT-3,348,048	c 14	N71-21088 *	US-PATENT-3,379,885	c 09	N71-22985 *	US-PATENT-3,413,536	c 03	N71-24605 *
US-PATENT-3,348,053	c 10	N71-20782 *	US-PATENT-3,379,974	c 14	N71-22990 *	US-PATENT-3,414,012	c 09	N71-23191 *

REPORT NUMBER INDEX

US-PATENT-3,472,577

US-PATENT-3,414,358	c 14	N71-23175 *	US-PATENT-3,429,177	c 06	N69-39733 *	US-PATENT-3,454,410	c 18	N69-39979 *
US-PATENT-3,415,032	c 15	N71-23256 *	US-PATENT-3,429,477	c 15	N69-27502 *	US-PATENT-3,454,766	c 35	N75-27329 *
US-PATENT-3,415,069	c 15	N71-24044 *	US-PATENT-3,429,756	c 76	N79-21910 *	US-PATENT-3,455,121	c 14	N71-20427 *
US-PATENT-3,415,116	c 14	N71-23790 *	US-PATENT-3,430,063	c 09	N69-27500 *	US-PATENT-3,455,171	c 23	N71-16098 *
US-PATENT-3,415,126	c 21	N71-23289 *	US-PATENT-3,430,115	c 09	N69-24318 *	US-PATENT-3,456,112	c 14	N69-39937 *
US-PATENT-3,415,156	c 15	N71-24043 *	US-PATENT-3,430,131	c 24	N71-20518 *	US-PATENT-3,456,193	c 08	N71-19763 *
US-PATENT-3,415,643	c 17	N71-23248 *	US-PATENT-3,430,182	c 14	N69-27431 *	US-PATENT-3,456,201	c 09	N69-39885 *
US-PATENT-3,416,106	c 09	N71-24808 *	US-PATENT-3,430,227	c 08	N71-19687 *	US-PATENT-3,458,104	c 15	N71-20393 *
US-PATENT-3,416,274	c 31	N71-24035 *	US-PATENT-3,430,237	c 07	N69-39974 *	US-PATENT-3,458,313	c 14	N71-17574 *
US-PATENT-3,416,939	c 18	N71-24183 *	US-PATENT-3,430,460	c 15	N69-27505 *	US-PATENT-3,458,651	c 09	N71-19449 *
US-PATENT-3,416,975	c 17	N71-23828 *	US-PATENT-3,430,902	c 14	N69-27486 *	US-PATENT-3,458,702	c 14	N71-18699 *
US-PATENT-3,416,988	c 15	N71-24164 *	US-PATENT-3,430,909	c 11	N69-27466 *	US-PATENT-3,458,726	c 10	N69-39888 *
US-PATENT-3,417,247	c 14	N71-23797 *	US-PATENT-3,430,937	c 15	N69-27483 *	US-PATENT-3,458,833	c 10	N71-19418 *
US-PATENT-3,417,266	c 09	N71-23270 *	US-PATENT-3,430,942	c 15	N69-27504 *	US-PATENT-3,458,851	c 09	N69-39734 *
US-PATENT-3,417,298	c 10	N71-23271 *	US-PATENT-3,431,149	c 14	N69-27459 *	US-PATENT-3,459,391	c 03	N71-11058 *
US-PATENT-3,417,316	c 14	N71-23174 *	US-PATENT-3,431,397	c 15	N69-27871 *	US-PATENT-3,460,378	c 14	N71-24233 *
US-PATENT-3,417,321	c 09	N71-23316 *	US-PATENT-3,431,460	c 09	N71-23189 *	US-PATENT-3,460,379	c 15	N71-24834 *
US-PATENT-3,417,332	c 07	N71-23405 *	US-PATENT-3,431,559	c 09	N69-24333 *	US-PATENT-3,460,381	c 14	N71-23725 *
US-PATENT-3,417,399	c 30	N71-23723 *	US-PATENT-3,432,730	c 09	N69-27422 *	US-PATENT-3,460,397	c 15	N71-24045 *
US-PATENT-3,417,400	c 07	N71-28809 *	US-PATENT-3,433,015	c 28	N71-20330 *	US-PATENT-3,460,759	c 28	N71-23968 *
US-PATENT-3,419,329	c 14	N71-23268 *	US-PATENT-3,433,079	c 14	N69-27503 *	US-PATENT-3,460,781	c 14	N71-26398 *
US-PATENT-3,419,363	c 18	N71-23710 *	US-PATENT-3,433,662	c 14	N71-20461 *	US-PATENT-3,460,995	c 03	N71-20407 *
US-PATENT-3,419,384	c 17	N73-28573 *	US-PATENT-3,433,818	c 06	N71-23230 *	US-PATENT-3,461,290	c 14	N71-26475 *
US-PATENT-3,419,433	c 03	N71-23187 *	US-PATENT-3,433,909	c 10	N71-23663 *	US-PATENT-3,461,393	c 10	N71-26415 *
US-PATENT-3,419,531	c 27	N79-21191 *	US-PATENT-3,433,953	c 14	N69-27484 *	US-PATENT-3,461,437	c 10	N71-26434 *
US-PATENT-3,419,537	c 06	N71-23500 *	US-PATENT-3,433,960	c 16	N69-27491 *	US-PATENT-3,461,700	c 15	N71-26346 *
US-PATENT-3,419,827	c 09	N71-23548 *	US-PATENT-3,433,961	c 14	N69-27432 *	US-PATENT-3,461,721	c 12	N71-20436 *
US-PATENT-3,419,964	c 14	N69-21363 *	US-PATENT-3,434,033	c 09	N69-39984 *	US-PATENT-3,461,855	c 05	N71-20268 *
US-PATENT-3,419,992	c 14	N71-23401 *	US-PATENT-3,434,037	c 10	N71-26414 *	US-PATENT-3,463,001	c 14	N71-20429 *
US-PATENT-3,420,069	c 15	N69-21465 *	US-PATENT-3,434,050	c 09	N71-20569 *	US-PATENT-3,463,563	c 15	N71-23812 *
US-PATENT-3,420,223	c 05	N69-21925 *	US-PATENT-3,434,064	c 09	N69-39986 *	US-PATENT-3,463,673	c 03	N71-20491 *
US-PATENT-3,420,225	c 05	N69-21473 *	US-PATENT-3,434,855	c 18	N71-24184 *	US-PATENT-3,463,679	c 17	N71-24142 *
US-PATENT-3,420,253	c 12	N69-21466 *	US-PATENT-3,434,885	c 03	N71-20492 *	US-PATENT-3,463,761	c 06	N73-30099 *
US-PATENT-3,420,338	c 15	N71-26243 *	US-PATENT-3,435,246	c 14	N69-24331 *	US-PATENT-3,463,762	c 06	N73-30100 *
US-PATENT-3,420,471	c 05	N69-21380 *	US-PATENT-3,437,394	c 14	N69-27461 *	US-PATENT-3,463,939	c 10	N71-19471 *
US-PATENT-3,420,704	c 15	N69-21460 *	US-PATENT-3,437,527	c 03	N69-24267 *	US-PATENT-3,464,012	c 14	N71-26244 *
US-PATENT-3,420,945	c 09	N69-21542 *	US-PATENT-3,437,560	c 04	N69-27487 *	US-PATENT-3,464,016	c 10	N71-19472 *
US-PATENT-3,420,978	c 15	N69-21471 *	US-PATENT-3,437,818	c 03	N71-23354 *	US-PATENT-3,464,018	c 09	N71-23525 *
US-PATENT-3,421,004	c 14	N71-19568 *	US-PATENT-3,437,832	c 09	N69-27463 *	US-PATENT-3,464,049	c 32	N71-15974 *
US-PATENT-3,421,053	c 15	N69-21472 *	US-PATENT-3,437,874	c 08	N71-20571 *	US-PATENT-3,464,051	c 15	N71-17685 *
US-PATENT-3,421,056	c 14	N69-23191 *	US-PATENT-3,437,903	c 03	N69-25146 *	US-PATENT-3,465,482	c 31	N71-16080 *
US-PATENT-3,421,105	c 09	N69-21543 *	US-PATENT-3,437,919	c 14	N69-27423 *	US-PATENT-3,465,567	c 15	N71-18579 *
US-PATENT-3,421,134	c 09	N69-21470 *	US-PATENT-3,437,935	c 09	N69-24324 *	US-PATENT-3,465,569	c 14	N71-17659 *
US-PATENT-3,421,331	c 15	N69-23190 *	US-PATENT-3,437,959	c 07	N69-24323 *	US-PATENT-3,465,584	c 14	N71-23726 *
US-PATENT-3,421,363	c 11	N69-21540 *	US-PATENT-3,438,044	c 07	N69-27460 *	US-PATENT-3,465,638	c 11	N71-18578 *
US-PATENT-3,421,506	c 05	N69-23192 *	US-PATENT-3,438,263	c 14	N71-20435 *	US-PATENT-3,465,986	c 31	N71-20396 *
US-PATENT-3,421,541	c 15	N69-21924 *	US-PATENT-3,439,886	c 31	N69-27499 *	US-PATENT-3,466,052	c 15	N71-19570 *
US-PATENT-3,421,549	c 03	N69-21469 *	US-PATENT-3,440,419	c 14	N73-28491 *	US-PATENT-3,466,085	c 05	N71-12343 *
US-PATENT-3,421,591	c 14	N69-21923 *	US-PATENT-3,442,674	c 25	N82-29370 *	US-PATENT-3,466,198	c 03	N71-19545 *
US-PATENT-3,421,700	c 15	N69-23185 *	US-PATENT-3,443,128	c 03	N69-39980 *	US-PATENT-3,466,243	c 15	N71-23810 *
US-PATENT-3,421,768	c 15	N69-21362 *	US-PATENT-3,443,208	c 14	N71-20428 *	US-PATENT-3,466,418	c 15	N71-18613 *
US-PATENT-3,421,864	c 17	N71-23046 *	US-PATENT-3,443,384	c 28	N71-24321 *	US-PATENT-3,466,424	c 15	N71-20395 *
US-PATENT-3,421,948	c 03	N69-21337 *	US-PATENT-3,443,390	c 11	N71-24964 *	US-PATENT-3,466,459	c 09	N71-26000 *
US-PATENT-3,422,213	c 03	N69-21539 *	US-PATENT-3,443,412	c 15	N71-23811 *	US-PATENT-3,466,484	c 14	N71-18482 *
US-PATENT-3,422,278	c 09	N69-21468 *	US-PATENT-3,443,416	c 06	N69-39936 *	US-PATENT-3,466,560	c 09	N71-19466 *
US-PATENT-3,422,291	c 25	N69-21929 *	US-PATENT-3,443,472	c 15	N71-23254 *	US-PATENT-3,466,570	c 10	N71-25950 *
US-PATENT-3,422,324	c 14	N69-21541 *	US-PATENT-3,443,583	c 14	N71-18625 *	US-PATENT-3,467,837	c 05	N71-23317 *
US-PATENT-3,422,352	c 14	N71-19431 *	US-PATENT-3,443,584	c 32	N71-16106 *	US-PATENT-3,468,303	c 09	N71-26002 *
US-PATENT-3,422,354	c 09	N69-21926 *	US-PATENT-3,443,732	c 15	N71-15607 *	US-PATENT-3,468,548	c 15	N71-26294 *
US-PATENT-3,422,390	c 09	N69-21927 *	US-PATENT-3,443,773	c 31	N71-23912 *	US-PATENT-3,468,609	c 16	N71-24170 *
US-PATENT-3,422,403	c 08	N69-21928 *	US-PATENT-3,443,779	c 01	N69-39981 *	US-PATENT-3,468,727	c 14	N71-25892 *
US-PATENT-3,422,440	c 09	N69-21467 *	US-PATENT-3,444,051	c 05	N71-11207 *	US-PATENT-3,468,765	c 17	N71-25903 *
US-PATENT-3,423,179	c 15	N69-21922 *	US-PATENT-3,444,127	c 06	N71-11237 *	US-PATENT-3,469,068	c 15	N71-23815 *
US-PATENT-3,423,290	c 06	N71-17705 *	US-PATENT-3,444,375	c 14	N71-15599 *	US-PATENT-3,469,069	c 15	N71-23798 *
US-PATENT-3,423,579	c 09	N71-19480 *	US-PATENT-3,444,380	c 07	N69-39980 *	US-PATENT-3,469,087	c 16	N71-25914 *
US-PATENT-3,423,608	c 09	N69-21313 *	US-PATENT-3,446,075	c 14	N73-30394 *	US-PATENT-3,469,143	c 33	N75-29318 *
US-PATENT-3,423,627	c 33	N78-17293 *	US-PATENT-3,446,387	c 15	N69-39935 *	US-PATENT-3,469,289	c 15	N71-25975 *
US-PATENT-3,424,966	c 10	N71-20448 *	US-PATENT-3,446,558	c 16	N71-24074 *	US-PATENT-3,469,375	c 14	N71-18483 *
US-PATENT-3,425,131	c 15	N71-19489 *	US-PATENT-3,446,642	c 18	N69-39895 *	US-PATENT-3,469,436	c 15	N71-23817 *
US-PATENT-3,425,268	c 14	N69-39975 *	US-PATENT-3,446,676	c 03	N71-11050 *	US-PATENT-3,469,437	c 14	N71-24234 *
US-PATENT-3,425,272	c 14	N71-20439 *	US-PATENT-3,446,960	c 14	N69-39982 *	US-PATENT-3,469,734	c 11	N71-17600 *
US-PATENT-3,425,276	c 14	N69-24257 *	US-PATENT-3,446,992	c 09	N69-39987 *	US-PATENT-3,470,043	c 15	N71-24047 *
US-PATENT-3,425,486	c 05	N71-24147 *	US-PATENT-3,446,997	c 03	N69-39898 *	US-PATENT-3,470,304	c 14	N71-23267 *
US-PATENT-3,425,487	c 05	N71-19439 *	US-PATENT-3,446,998	c 09	N69-39929 *	US-PATENT-3,470,313	c 07	N71-26579 *
US-PATENT-3,425,885	c 15	N69-24322 *	US-PATENT-3,447,003	c 09	N71-20446 *	US-PATENT-3,470,318	c 07	N71-24612 *
US-PATENT-3,426,219	c 09	N69-24317 *	US-PATENT-3,447,015	c 06	N69-39889 *	US-PATENT-3,470,342	c 09	N71-19610 *
US-PATENT-3,426,230	c 15	N69-24319 *	US-PATENT-3,447,071	c 25	N69-39884 *	US-PATENT-3,470,443	c 03	N71-23239 *
US-PATENT-3,426,263	c 03	N71-19438 *	US-PATENT-3,447,154	c 21	N71-11766 *	US-PATENT-3,470,446	c 09	N71-23188 *
US-PATENT-3,426,272	c 14	N69-39785 *	US-PATENT-3,447,155	c 09	N71-18598 *	US-PATENT-3,470,466	c 14	N71-23699 *
US-PATENT-3,426,746	c 05	N71-26293 *	US-PATENT-3,447,233	c 15	N69-39786 *	US-PATENT-3,470,475	c 10	N71-19467 *
US-PATENT-3,426,791	c 15	N71-19569 *	US-PATENT-3,447,774	c 15	N71-19485 *	US-PATENT-3,470,489	c 09	N71-23598 *
US-PATENT-3,427,047	c 15	N69-27490 *	US-PATENT-3,447,850	c 09	N71-18600 *	US-PATENT-3,470,495	c 10	N71-23669 *
US-PATENT-3,427,089	c 23	N69-24332 *	US-PATENT-3,448,273	c 07	N69-39736 *	US-PATENT-3,470,496	c 09	N71-19470 *
US-PATENT-3,427,093	c 09	N71-19479 *	US-PATENT-3,448,290	c 10	N71-23315 *	US-PATENT-3,471,856	c 30	N71-16090 *
US-PATENT-3,427,097	c 11	N69-24321 *	US-PATENT-3,448,341	c 09	N71-12526 *	US-PATENT-3,471,858	c 07	N71-12391 *
US-PATENT-3,427,205	c 15	N69-24320 *	US-PATENT-3,448,346	c 15	N71-18701 *	US-PATENT-3,472,019	c 10	N71-26326 *
US-PATENT-3,427,435	c 17	N69-25147 *	US-PATENT-3,450,842	c 07	N69-39978 *	US-PATENT-3,472,059	c 14	N71-23755 *
US-PATENT-3,427,454	c 05	N71-19440 *	US-PATENT-3,450,878	c 14	N71-20430 *	US-PATENT-3,472,060	c 14	N71-26136 *
US-PATENT-3,427,525	c 03	N69-21330 *	US-PATENT-3,450,946	c 09	N69-39897 *	US-PATENT-3,472,069	c 15	N71-20441 *
US-PATENT-3,428,761	c 09	N69-24329 *	US-PATENT-3,452,103	c 06	N73-30101 *	US-PATENT-3,472,080	c 10	N71-26339 *
US-PATENT-3,428,812	c 14	N69-27485 *	US-PATENT-3,452,423	c 26	N71-16037 *	US-PATENT-3,472,086	c 15	N71-23809 *
US-PATENT-3,428,847	c 15	N69-24266 *	US-PATENT-3,452,872	c 14	N69-39896 *	US-PATENT-3,472,140	c 14	N71-26474 *
US-PATENT-3,428,910	c 09	N69-24330 *	US-PATENT-3,453,172	c 15	N69-39735 *	US-PATENT-3,472,202	c 17	N71-24911 *
US-PATENT-3,428,919	c 07	N69-24334 *	US-PATENT-3,453,462	c 03	N69-39983 *	US-PATENT-3,472,372	c 15	N71-20440 *
US-PATENT-3,428,923	c 07	N69-27462 *	US-PATENT-3,453,546	c 05	N71-12342 *	US-PATENT-3,472,470	c 02	N71-20570 *
US-PATENT-3,429,058	c 12	N69-39988 *	US-PATENT-3,453,878	c 09	N79-21083 *	US-PATENT-3,472,577	c 23	N71-24857 *

US-PATENT-3,472,625

REPORT NUMBER INDEX

US-PATENT-3,472,625	c 06	N71-23527 *	US-PATENT-3,500,688	c 14	N71-17587 *	US-PATENT-3,526,134	c 33	N71-16356 *
US-PATENT-3,472,629	c 14	N71-20442 *	US-PATENT-3,500,747	c 09	N71-18599 *	US-PATENT-3,526,139	c 31	N71-16221 *
US-PATENT-3,472,698	c 03	N71-23449 *	US-PATENT-3,500,827	c 05	N71-11203 *	US-PATENT-3,526,140	c 27	N71-16223 *
US-PATENT-3,472,709	c 18	N71-26153 *	US-PATENT-3,501,112	c 15	N71-17693 *	US-PATENT-3,526,359	c 33	N71-16357 *
US-PATENT-3,472,742	c 17	N71-24830 *	US-PATENT-3,501,632	c 27	N71-16348 *	US-PATENT-3,526,365	c 28	N71-16224 *
US-PATENT-3,472,998	c 16	N71-20400 *	US-PATENT-3,501,641	c 20	N71-16340 *	US-PATENT-3,526,372	c 31	N71-16340 *
US-PATENT-3,473,050	c 09	N71-20447 *	US-PATENT-3,501,648	c 10	N71-24799 *	US-PATENT-3,526,382	c 15	N71-17649 *
US-PATENT-3,473,116	c 25	N71-20563 *	US-PATENT-3,501,649	c 10	N71-18723 *	US-PATENT-3,526,460	c 23	N71-16365 *
US-PATENT-3,473,165	c 05	N71-26333 *	US-PATENT-3,501,664	c 14	N71-17585 *	US-PATENT-3,526,473	c 18	N71-15545 *
US-PATENT-3,473,216	c 15	N71-20443 *	US-PATENT-3,501,683	c 15	N71-17694 *	US-PATENT-3,526,580	c 18	N71-16210 *
US-PATENT-3,473,379	c 12	N71-26387 *	US-PATENT-3,501,684	c 09	N71-26092 *	US-PATENT-3,526,611	c 06	N71-11236 *
US-PATENT-3,473,758	c 03	N71-20273 *	US-PATENT-3,501,701	c 08	N71-18692 *	US-PATENT-3,526,845	c 09	N71-13531 *
US-PATENT-3,474,192	c 07	N71-26102 *	US-PATENT-3,501,704	c 07	N71-11282 *	US-PATENT-3,526,897	c 09	N71-13521 *
US-PATENT-3,474,220	c 15	N71-19486 *	US-PATENT-3,501,712	c 09	N71-19516 *	US-PATENT-3,527,724	c 27	N78-33228 *
US-PATENT-3,474,328	c 14	N71-26266 *	US-PATENT-3,501,743	c 09	N71-18843 *	US-PATENT-3,529,480	c 15	N71-17692 *
US-PATENT-3,474,357	c 09	N71-20445 *	US-PATENT-3,501,750	c 08	N71-19288 *	US-PATENT-3,529,928	c 17	N71-16393 *
US-PATENT-3,474,413	c 10	N71-26103 *	US-PATENT-3,501,752	c 08	N71-18595 *	US-PATENT-3,530,336	c 09	N71-13518 *
US-PATENT-3,474,441	c 08	N71-19544 *	US-PATENT-3,501,764	c 10	N71-18722 *	US-PATENT-3,531,964	c 15	N71-18616 *
US-PATENT-3,475,384	c 06	N73-30103 *	US-PATENT-3,502,051	c 15	N71-17647 *	US-PATENT-3,531,978	c 14	N71-18481 *
US-PATENT-3,475,442	c 26	N75-27125 *	US-PATENT-3,502,074	c 05	N71-11190 *	US-PATENT-3,531,982	c 15	N71-18132 *
US-PATENT-3,475,675	c 33	N78-17295 *	US-PATENT-3,502,141	c 33	N71-16277 *	US-PATENT-3,531,989	c 33	N71-16393 *
US-PATENT-3,478,514	c 37	N77-22479 *	US-PATENT-3,503,251	c 32	N71-16428 *	US-PATENT-3,532,118	c 12	N71-18615 *
US-PATENT-3,480,789	c 10	N71-26626 *	US-PATENT-3,504,258	c 10	N71-18724 *	US-PATENT-3,532,128	c 15	N71-18580 *
US-PATENT-3,481,638	c 15	N71-26312 *	US-PATENT-3,504,983	c 23	N71-16341 *	US-PATENT-3,532,427	c 21	N71-19212 *
US-PATENT-3,481,802	c 31	N79-21226 *	US-PATENT-3,506,496	c 44	N82-24645 *	US-PATENT-3,532,428	c 30	N71-15590 *
US-PATENT-3,481,887	c 18	N71-26155 *	US-PATENT-3,507,034	c 15	N71-17650 *	US-PATENT-3,532,538	c 18	N71-16046 *
US-PATENT-3,482,179	c 10	N71-26331 *	US-PATENT-3,507,114	c 27	N71-16392 *	US-PATENT-3,532,551	c 03	N71-11049 *
US-PATENT-3,483,535	c 10	N71-26418 *	US-PATENT-3,507,146	c 05	N71-11202 *	US-PATENT-3,532,568	c 17	N71-16044 *
US-PATENT-3,484,712	c 10	N71-26374 *	US-PATENT-3,507,150	c 20	N71-16281 *	US-PATENT-3,532,673	c 06	N71-11238 *
US-PATENT-3,485,290	c 20	N79-21123 *	US-PATENT-3,507,425	c 15	N71-17628 *	US-PATENT-3,532,807	c 07	N71-19433 *
US-PATENT-3,486,123	c 16	N71-24831 *	US-PATENT-3,507,436	c 08	N71-19420 *	US-PATENT-3,532,819	c 10	N71-19468 *
US-PATENT-3,487,216	c 14	N71-24809 *	US-PATENT-3,507,704	c 03	N71-11052 *	US-PATENT-3,532,866	c 08	N71-18602 *
US-PATENT-3,487,281	c 15	N71-24695 *	US-PATENT-3,507,706	c 03	N71-18698 *	US-PATENT-3,532,880	c 24	N71-16095 *
US-PATENT-3,487,288	c 10	N71-25139 *	US-PATENT-3,508,036	c 08	N71-18693 *	US-PATENT-3,532,894	c 23	N71-16100 *
US-PATENT-3,487,680	c 15	N71-17696 *	US-PATENT-3,508,039	c 08	N71-19437 *	US-PATENT-3,532,948	c 10	N71-18772 *
US-PATENT-3,487,765	c 54	N78-17679 *	US-PATENT-3,508,053	c 09	N71-18830 *	US-PATENT-3,532,960	c 03	N71-12255 *
US-PATENT-3,488,103	c 14	N71-15604 *	US-PATENT-3,508,070	c 03	N71-11057 *	US-PATENT-3,532,973	c 15	N71-17822 *
US-PATENT-3,488,123	c 14	N71-17627 *	US-PATENT-3,508,152	c 07	N71-11266 *	US-PATENT-3,532,975	c 10	N71-19421 *
US-PATENT-3,488,414	c 15	N71-17803 *	US-PATENT-3,508,156	c 07	N71-11267 *	US-PATENT-3,532,979	c 10	N71-12554 *
US-PATENT-3,488,461	c 09	N71-12518 *	US-PATENT-3,508,347	c 05	N71-24606 *	US-PATENT-3,532,985	c 07	N71-19773 *
US-PATENT-3,488,504	c 21	N71-15642 *	US-PATENT-3,508,402	c 33	N71-16104 *	US-PATENT-3,533,001	c 07	N71-24583 *
US-PATENT-3,488,771	c 54	N78-17678 *	US-PATENT-3,508,541	c 05	N71-11193 *	US-PATENT-3,533,006	c 10	N72-28241 *
US-PATENT-3,490,074	c 54	N78-17677 *	US-PATENT-3,508,578	c 32	N71-16103 *	US-PATENT-3,533,074	c 08	N71-12502 *
US-PATENT-3,490,130	c 05	N71-12345 *	US-PATENT-3,508,723	c 31	N71-16222 *	US-PATENT-3,533,093	c 10	N71-19417 *
US-PATENT-3,490,205	c 14	N71-17588 *	US-PATENT-3,508,724	c 02	N71-11037 *	US-PATENT-3,533,098	c 08	N71-18594 *
US-PATENT-3,490,235	c 28	N71-14044 *	US-PATENT-3,508,739	c 15	N71-17648 *	US-PATENT-3,534,365	c 07	N71-19854 *
US-PATENT-3,490,238	c 15	N70-22192 *	US-PATENT-3,508,779	c 15	N71-24897 *	US-PATENT-3,534,367	c 02	N71-19287 *
US-PATENT-3,490,405	c 15	N71-15597 *	US-PATENT-3,508,940	c 18	N71-16124 *	US-PATENT-3,534,375	c 07	N71-11285 *
US-PATENT-3,490,440	c 05	N71-12346 *	US-PATENT-3,508,955	c 18	N71-16105 *	US-PATENT-3,534,376	c 07	N71-26101 *
US-PATENT-3,490,718	c 33	N71-14035 *	US-PATENT-3,508,999	c 15	N71-17687 *	US-PATENT-3,534,406	c 05	N71-11195 *
US-PATENT-3,490,719	c 21	N71-14159 *	US-PATENT-3,509,034	c 14	N71-17575 *	US-PATENT-3,534,407	c 05	N71-11194 *
US-PATENT-3,490,721	c 02	N71-11039 *	US-PATENT-3,509,386	c 03	N71-11055 *	US-PATENT-3,534,479	c 14	N71-17657 *
US-PATENT-3,490,939	c 33	N71-14032 *	US-PATENT-3,509,419	c 24	N71-16213 *	US-PATENT-3,534,480	c 14	N71-17658 *
US-PATENT-3,490,965	c 09	N71-12513 *	US-PATENT-3,509,469	c 23	N71-16099 *	US-PATENT-3,534,485	c 11	N71-18773 *
US-PATENT-3,491,202	c 07	N71-12392 *	US-PATENT-3,509,475	c 09	N71-24596 *	US-PATENT-3,534,555	c 12	N71-17631 *
US-PATENT-3,491,255	c 09	N71-12514 *	US-PATENT-3,509,491	c 09	N71-18721 *	US-PATENT-3,534,584	c 10	N71-13545 *
US-PATENT-3,491,335	c 14	N71-15620 *	US-PATENT-3,509,551	c 08	N71-18694 *	US-PATENT-3,534,585	c 14	N71-17701 *
US-PATENT-3,491,857	c 14	N71-17626 *	US-PATENT-3,509,558	c 08	N71-19435 *	US-PATENT-3,534,592	c 14	N71-17656 *
US-PATENT-3,492,176	c 27	N71-14090 *	US-PATENT-3,509,570	c 09	N71-18720 *	US-PATENT-3,534,596	c 14	N71-17586 *
US-PATENT-3,492,672	c 05	N71-12344 *	US-PATENT-3,509,578	c 07	N71-19493 *	US-PATENT-3,534,597	c 31	N71-15843 *
US-PATENT-3,492,739	c 15	N71-15571 *	US-PATENT-3,511,680	c 31	N79-21227 *	US-PATENT-3,534,650	c 15	N71-17653 *
US-PATENT-3,492,858	c 35	N78-17358 *	US-PATENT-3,512,009	c 08	N71-18751 *	US-PATENT-3,534,686	c 31	N71-15687 *
US-PATENT-3,492,862	c 14	N71-15600 *	US-PATENT-3,514,785	c 54	N78-18761 *	US-PATENT-3,534,727	c 05	N71-11189 *
US-PATENT-3,492,947	c 28	N71-14058 *	US-PATENT-3,516,091	c 05	N71-24623 *	US-PATENT-3,534,765	c 12	N71-17661 *
US-PATENT-3,493,003	c 15	N71-15609 *	US-PATENT-3,516,179	c 11	N71-19494 *	US-PATENT-3,534,826	c 31	N71-15689 *
US-PATENT-3,493,004	c 12	N71-15759 *	US-PATENT-3,516,185	c 12	N71-18603 *	US-PATENT-3,534,836	c 15	N71-17805 *
US-PATENT-3,493,012	c 15	N71-15608 *	US-PATENT-3,516,284	c 12	N71-17573 *	US-PATENT-3,534,909	c 15	N71-17654 *
US-PATENT-3,493,027	c 31	N71-18611 *	US-PATENT-3,516,404	c 05	N71-17599 *	US-PATENT-3,534,924	c 31	N71-15674 *
US-PATENT-3,493,153	c 05	N71-12351 *	US-PATENT-3,516,711	c 05	N71-12341 *	US-PATENT-3,534,925	c 31	N71-15676 *
US-PATENT-3,493,155	c 26	N71-14354 *	US-PATENT-3,516,879	c 23	N71-16212 *	US-PATENT-3,534,926	c 15	N71-19214 *
US-PATENT-3,493,194	c 21	N71-14132 *	US-PATENT-3,516,964	c 06	N71-11240 *	US-PATENT-3,534,930	c 02	N71-13422 *
US-PATENT-3,493,197	c 02	N71-11043 *	US-PATENT-3,516,970	c 06	N71-11239 *	US-PATENT-3,535,012	c 16	N71-15567 *
US-PATENT-3,493,291	c 14	N71-15622 *	US-PATENT-3,516,971	c 06	N71-24740 *	US-PATENT-3,535,013	c 16	N71-15551 *
US-PATENT-3,493,294	c 14	N71-15605 *	US-PATENT-3,517,109	c 07	N71-19436 *	US-PATENT-3,535,014	c 16	N71-15565 *
US-PATENT-3,493,401	c 18	N71-14014 *	US-PATENT-3,517,162	c 33	N71-16278 *	US-PATENT-3,535,024	c 14	N71-17662 *
US-PATENT-3,493,415	c 15	N71-15610 *	US-PATENT-3,517,171	c 08	N71-24633 *	US-PATENT-3,535,041	c 14	N71-17655 *
US-PATENT-3,493,437	c 03	N71-11056 *	US-PATENT-3,517,221	c 10	N71-19547 *	US-PATENT-3,535,110	c 17	N71-15468 *
US-PATENT-3,493,522	c 06	N71-11243 *	US-PATENT-3,517,268	c 10	N71-19469 *	US-PATENT-3,535,130	c 18	N71-15469 *
US-PATENT-3,493,524	c 06	N71-11242 *	US-PATENT-3,517,302	c 25	N71-16073 *	US-PATENT-3,535,165	c 33	N71-15568 *
US-PATENT-3,493,665	c 14	N71-15621 *	US-PATENT-3,517,318	c 08	N71-19432 *	US-PATENT-3,535,179	c 15	N71-17651 *
US-PATENT-3,493,677	c 07	N71-11300 *	US-PATENT-3,517,328	c 16	N71-18614 *	US-PATENT-3,535,352	c 18	N71-15688 *
US-PATENT-3,493,711	c 15	N71-14932 *	US-PATENT-3,518,232	c 06	N71-11235 *	US-PATENT-3,535,446	c 09	N71-12539 *
US-PATENT-3,493,746	c 15	N71-15606 *	US-PATENT-3,519,483	c 44	N82-24644 *	US-PATENT-3,535,451	c 07	N71-11281 *
US-PATENT-3,493,797	c 15	N71-17652 *	US-PATENT-3,519,484	c 44	N82-24643 *	US-PATENT-3,535,497	c 08	N71-24890 *
US-PATENT-3,493,805	c 09	N71-12521 *	US-PATENT-3,520,190	c 10	N71-13537 *	US-PATENT-3,535,543	c 09	N71-13486 *
US-PATENT-3,493,901	c 09	N71-12517 *	US-PATENT-3,520,238	c 14	N71-18465 *	US-PATENT-3,535,547	c 09	N71-12520 *
US-PATENT-3,493,929	c 08	N71-12505 *	US-PATENT-3,520,317	c 12	N71-17578 *	US-PATENT-3,535,554	c 09	N71-12516 *
US-PATENT-3,493,942	c 08	N71-12504 *	US-PATENT-3,520,496	c 31	N71-16345 *	US-PATENT-3,535,560	c 08	N71-12494 *
US-PATENT-3,495,260	c 21	N71-13958 *	US-PATENT-3,520,503	c 31	N71-16085 *	US-PATENT-3,535,562	c 33	N71-27862 *
US-PATENT-3,495,262	c 07	N71-12396 *	US-PATENT-3,520,617	c 23	N71-16101 *	US-PATENT-3,535,570	c 15	N71-24696 *
US-PATENT-3,498,840	c 44	N82-24642 *	US-PATENT-3,520,660	c 23	N71-16355 *	US-PATENT-3,535,586	c 25	N71-15562 *
US-PATENT-3,498,841	c 44	N82-24641 *	US-PATENT-3,521,054	c 06	N71-13461 *	US-PATENT-3,535,602	c 09	N71-13522 *
US-PATENT-3,500,020	c 01	N71-13411 *	US-PATENT-3,521,143	c 08	N71-18752 *	US-PATENT-3,535,642	c 08	N71-12503 *
US-PATENT-3,500,525	c 15	N71-17688 *	US-PATENT-3,521,290	c 31	N71-16102 *	US-PATENT-3,535,644	c 09	N71-12519 *
US-PATENT-3,500,677	c 14	N71-17584 *	US-PATENT-3,523,228	c 10	N71-24861 *	US-PATENT-3,535,657	c 07	N71-12390 *
US-PATENT-3,500,686	c 12	N71-17569 *	US-PATENT-3,526,030	c 15	N71-17686 *	US-PATENT-3,535,658	c 08	N71-12500 *

REPORT NUMBER INDEX

US-PATENT-3,596,465

US-PATENT-3,535,683	c 31	N71-15566 *	US-PATENT-3,555,898	c 12	N71-26546 *	US-PATENT-3,573,977	c 15	N71-28582 *
US-PATENT-3,535,696	c 08	N71-12506 *	US-PATENT-3,556,048	c 09	N71-26701 *	US-PATENT-3,573,986	c 03	N71-28579 *
US-PATENT-3,535,702	c 09	N71-12515 *	US-PATENT-3,556,634	c 07	N71-26291 *	US-PATENT-3,573,996	c 18	N71-29040 *
US-PATENT-3,536,103	c 15	N71-19213 *	US-PATENT-3,557,027	c 06	N71-25929 *	US-PATENT-3,574,057	c 22	N71-28759 *
US-PATENT-3,537,096	c 08	N71-12507 *	US-PATENT-3,557,534	c 15	N71-26185 *	US-PATENT-3,574,084	c 14	N71-28933 *
US-PATENT-3,537,103	c 08	N71-24650 *	US-PATENT-3,559,031	c 10	N71-26085 *	US-PATENT-3,574,277	c 15	N71-28467 *
US-PATENT-3,537,107	c 05	N71-24730 *	US-PATENT-3,559,096	c 10	N71-25882 *	US-PATENT-3,574,286	c 11	N71-27036 *
US-PATENT-3,537,305	c 26	N71-25490 *	US-PATENT-3,559,460	c 14	N71-26672 *	US-PATENT-3,574,438	c 07	N71-29065 *
US-PATENT-3,537,515	c 09	N71-24807 *	US-PATENT-3,559,937	c 14	N71-26627 *	US-PATENT-3,574,448	c 23	N71-29123 *
US-PATENT-3,537,668	c 05	N71-24728 *	US-PATENT-3,560,081	c 19	N71-26674 *	US-PATENT-3,574,462	c 14	N71-29041 *
US-PATENT-3,537,672	c 15	N71-24694 *	US-PATENT-3,560,161	c 06	N71-26754 *	US-PATENT-3,574,467	c 23	N71-29125 *
US-PATENT-3,538,053	c 27	N78-17214 *	US-PATENT-3,561,828	c 15	N71-26189 *	US-PATENT-3,574,470	c 14	N71-28993 *
US-PATENT-3,539,905	c 09	N71-24800 *	US-PATENT-3,562,575	c 09	N71-26182 *	US-PATENT-3,574,770	c 06	N71-27254 *
US-PATENT-3,540,045	c 09	N71-24595 *	US-PATENT-3,562,631	c 14	N71-26137 *	US-PATENT-3,575,336	c 15	N71-27214 *
US-PATENT-3,540,048	c 31	N71-24813 *	US-PATENT-3,562,857	c 15	N71-26721 *	US-PATENT-3,575,585	c 14	N71-27058 *
US-PATENT-3,540,050	c 09	N71-24804 *	US-PATENT-3,562,881	c 09	N71-26678 *	US-PATENT-3,575,597	c 14	N71-27090 *
US-PATENT-3,540,054	c 07	N71-24625 *	US-PATENT-3,562,919	c 15	N71-26145 *	US-PATENT-3,575,602	c 16	N71-27183 *
US-PATENT-3,540,056	c 07	N71-24614 *	US-PATENT-3,563,135	c 15	N71-27147 *	US-PATENT-3,575,638	c 09	N71-26133 *
US-PATENT-3,540,250	c 15	N71-24865 *	US-PATENT-3,563,198	c 18	N71-26285 *	US-PATENT-3,575,641	c 10	N71-26334 *
US-PATENT-3,540,449	c 15	N71-24835 *	US-PATENT-3,563,232	c 05	N71-27234 *	US-PATENT-3,576,107	c 28	N71-26781 *
US-PATENT-3,540,615	c 33	N71-25351 *	US-PATENT-3,563,307	c 15	N71-26611 *	US-PATENT-3,576,127	c 14	N71-26161 *
US-PATENT-3,540,676	c 15	N71-24600 *	US-PATENT-3,563,668	c 14	N71-26788 *	US-PATENT-3,576,135	c 15	N71-26635 *
US-PATENT-3,540,790	c 16	N71-26154 *	US-PATENT-3,563,727	c 15	N71-27184 *	US-PATENT-3,576,301	c 02	N71-26110 *
US-PATENT-3,540,802	c 23	N71-24868 *	US-PATENT-3,563,918	c 06	N71-27363 *	US-PATENT-3,576,656	c 18	N71-26772 *
US-PATENT-3,540,942	c 15	N71-24875 *	US-PATENT-3,564,234	c 09	N71-26787 *	US-PATENT-3,576,669	c 15	N71-29032 *
US-PATENT-3,540,989	c 24	N71-25555 *	US-PATENT-3,564,401	c 14	N71-26135 *	US-PATENT-3,576,723	c 09	N71-28691 *
US-PATENT-3,541,250	c 07	N71-24742 *	US-PATENT-3,564,420	c 14	N71-26774 *	US-PATENT-3,576,786	c 06	N71-28620 *
US-PATENT-3,541,312	c 08	N71-24891 *	US-PATENT-3,564,564	c 15	N71-26162 *	US-PATENT-3,577,014	c 10	N71-28860 *
US-PATENT-3,541,314	c 07	N71-24741 *	US-PATENT-3,564,866	c 23	N71-26654 *	US-PATENT-3,577,092	c 07	N71-28430 *
US-PATENT-3,541,346	c 09	N71-24803 *	US-PATENT-3,564,906	c 32	N71-26681 *	US-PATENT-3,577,356	c 06	N73-30102 *
US-PATENT-3,541,361	c 09	N71-24904 *	US-PATENT-3,565,530	c 15	N71-26673 *	US-PATENT-3,578,755	c 14	N71-29134 *
US-PATENT-3,541,422	c 03	N71-24719 *	US-PATENT-3,565,584	c 15	N71-27372 *	US-PATENT-3,578,756	c 11	N71-28629 *
US-PATENT-3,541,428	c 09	N71-24893 *	US-PATENT-3,565,607	c 17	N71-26773 *	US-PATENT-3,578,758	c 14	N71-28992 *
US-PATENT-3,541,439	c 09	N71-24843 *	US-PATENT-3,565,719	c 03	N71-26726 *	US-PATENT-3,578,838	c 16	N71-29131 *
US-PATENT-3,541,450	c 07	N71-24840 *	US-PATENT-3,566,027	c 07	N71-27341 *	US-PATENT-3,578,867	c 14	N71-28994 *
US-PATENT-3,541,459	c 10	N71-24844 *	US-PATENT-3,566,045	c 08	N71-27210 *	US-PATENT-3,578,957	c 08	N71-29033 *
US-PATENT-3,541,479	c 09	N71-24841 *	US-PATENT-3,566,122	c 14	N71-27323 *	US-PATENT-3,578,988	c 09	N71-29139 *
US-PATENT-3,541,486	c 16	N71-28554 *	US-PATENT-3,566,143	c 14	N71-27407 *	US-PATENT-3,578,992	c 09	N71-28421 *
US-PATENT-3,541,679	c 03	N71-24681 *	US-PATENT-3,566,158	c 10	N71-27126 *	US-PATENT-3,579,041	c 09	N71-29008 *
US-PATENT-3,541,825	c 15	N71-24836 *	US-PATENT-3,566,268	c 10	N71-26577 *	US-PATENT-3,579,103	c 14	N71-28991 *
US-PATENT-3,541,875	c 15	N71-24984 *	US-PATENT-3,566,396	c 10	N71-26544 *	US-PATENT-3,579,122	c 08	N71-29034 *
US-PATENT-3,543,050	c 10	N71-24862 *	US-PATENT-3,566,459	c 14	N71-27334 *	US-PATENT-3,579,146	c 08	N71-29138 *
US-PATENT-3,543,159	c 09	N71-24717 *	US-PATENT-3,566,676	c 14	N71-26199 *	US-PATENT-3,579,147	c 07	N71-28429 *
US-PATENT-3,543,839	c 34	N78-17337 *	US-PATENT-3,566,993	c 15	N71-27169 *	US-PATENT-3,579,168	c 09	N71-29035 *
US-PATENT-3,545,208	c 28	N71-25213 *	US-PATENT-3,567,155	c 21	N71-27324 *	US-PATENT-3,579,242	c 07	N71-28980 *
US-PATENT-3,545,226	c 23	N71-24725 *	US-PATENT-3,567,339	c 15	N71-27084 *	US-PATENT-3,579,390	c 18	N71-28729 *
US-PATENT-3,545,252	c 11	N71-24985 *	US-PATENT-3,567,651	c 18	N71-27170 *	US-PATENT-3,579,412	c 17	N71-28747 *
US-PATENT-3,545,262	c 38	N76-28563 *	US-PATENT-3,567,677	c 18	N71-25881 *	US-PATENT-3,581,492	c 28	N71-28915 *
US-PATENT-3,545,275	c 09	N71-24597 *	US-PATENT-3,567,861	c 10	N71-25865 *	US-PATENT-3,582,828	c 33	N77-21314 *
US-PATENT-3,545,725	c 15	N71-24599 *	US-PATENT-3,567,913	c 10	N71-27137 *	US-PATENT-3,582,960	c 09	N71-28618 *
US-PATENT-3,545,792	c 15	N71-24903 *	US-PATENT-3,567,927	c 14	N71-28863 *	US-PATENT-3,583,058	c 15	N71-29018 *
US-PATENT-3,546,386	c 07	N71-24621 *	US-PATENT-3,568,010	c 09	N71-27232 *	US-PATENT-3,583,239	c 15	N71-29132 *
US-PATENT-3,546,471	c 14	N71-24864 *	US-PATENT-3,568,028	c 10	N71-27136 *	US-PATENT-3,583,322	c 05	N71-28619 *
US-PATENT-3,546,552	c 15	N71-24895 *	US-PATENT-3,568,103	c 10	N71-25900 *	US-PATENT-3,583,419	c 12	N71-28741 *
US-PATENT-3,546,553	c 09	N71-24805 *	US-PATENT-3,568,197	c 07	N71-27056 *	US-PATENT-3,583,744	c 15	N71-29133 *
US-PATENT-3,546,684	c 07	N71-24624 *	US-PATENT-3,568,447	c 15	N71-27432 *	US-PATENT-3,583,777	c 15	N71-28465 *
US-PATENT-3,546,694	c 10	N71-24798 *	US-PATENT-3,568,572	c 15	N71-27754 *	US-PATENT-3,583,815	c 15	N71-28740 *
US-PATENT-3,546,705	c 09	N71-24842 *	US-PATENT-3,568,702	c 10	N71-25899 *	US-PATENT-3,584,311	c 09	N71-28468 *
US-PATENT-3,546,917	c 15	N71-24679 *	US-PATENT-3,568,748	c 15	N71-27091 *	US-PATENT-3,584,660	c 15	N72-12408 *
US-PATENT-3,546,920	c 06	N71-24607 *	US-PATENT-3,568,795	c 15	N71-27067 *	US-PATENT-3,585,514	c 10	N71-33129 *
US-PATENT-3,546,931	c 32	N71-25360 *	US-PATENT-3,568,805	c 15	N71-27146 *	US-PATENT-3,585,882	c 15	N71-33518 *
US-PATENT-3,547,105	c 09	N71-24618 *	US-PATENT-3,568,874	c 15	N71-27068 *	US-PATENT-3,586,261	c 31	N71-33160 *
US-PATENT-3,547,376	c 31	N71-25434 *	US-PATENT-3,568,885	c 14	N71-27005 *	US-PATENT-3,587,306	c 11	N71-33612 *
US-PATENT-3,547,540	c 16	N71-24828 *	US-PATENT-3,569,710	c 14	N71-25901 *	US-PATENT-3,587,424	c 16	N71-33410 *
US-PATENT-3,547,801	c 03	N71-24718 *	US-PATENT-3,569,744	c 09	N71-27016 *	US-PATENT-3,588,220	c 23	N71-33229 *
US-PATENT-3,548,107	c 07	N71-24622 *	US-PATENT-3,569,804	c 09	N71-25999 *	US-PATENT-3,588,331	c 07	N72-12081 *
US-PATENT-3,548,633	c 18	N71-24934 *	US-PATENT-3,569,827	c 18	N71-27397 *	US-PATENT-3,588,359	c 07	N71-33108 *
US-PATENT-3,548,636	c 15	N71-24910 *	US-PATENT-3,569,828	c 14	N71-27186 *	US-PATENT-3,588,483	c 08	N71-33110 *
US-PATENT-3,548,812	c 05	N71-24729 *	US-PATENT-3,569,866	c 10	N71-27271 *	US-PATENT-3,588,648	c 07	N71-33613 *
US-PATENT-3,548,930	c 33	N71-25353 *	US-PATENT-3,569,875	c 07	N71-27191 *	US-PATENT-3,588,671	c 09	N71-33109 *
US-PATENT-3,549,435	c 14	N72-28438 *	US-PATENT-3,569,956	c 10	N71-25917 *	US-PATENT-3,588,705	c 07	N71-33696 *
US-PATENT-3,549,564	c 06	N71-24739 *	US-PATENT-3,569,976	c 07	N71-27233 *	US-PATENT-3,588,751	c 07	N71-33606 *
US-PATENT-3,549,799	c 09	N71-25866 *	US-PATENT-3,570,143	c 10	N71-27365 *	US-PATENT-3,588,874	c 09	N71-33519 *
US-PATENT-3,549,882	c 15	N71-24896 *	US-PATENT-3,570,364	c 28	N71-26779 *	US-PATENT-3,588,883	c 10	N71-33407 *
US-PATENT-3,549,955	c 09	N71-24892 *	US-PATENT-3,570,513	c 12	N71-27332 *	US-PATENT-3,591,420	c 03	N71-33409 *
US-PATENT-3,550,023	c 09	N71-24806 *	US-PATENT-3,570,785	c 28	N71-27585 *	US-PATENT-3,591,426	c 17	N71-33408 *
US-PATENT-3,550,034	c 16	N71-24832 *	US-PATENT-3,570,789	c 02	N71-27088 *	US-PATENT-3,591,885	c 15	N72-11390 *
US-PATENT-3,550,129	c 21	N71-24948 *	US-PATENT-3,571,555	c 15	N71-27135 *	US-PATENT-3,591,960	c 15	N72-12409 *
US-PATENT-3,550,585	c 05	N71-24738 *	US-PATENT-3,571,656	c 09	N71-27001 *	US-PATENT-3,591,967	c 28	N72-11709 *
US-PATENT-3,551,266	c 33	N71-24858 *	US-PATENT-3,571,662	c 10	N71-27366 *	US-PATENT-3,592,422	c 15	N72-11391 *
US-PATENT-3,551,816	c 07	N71-24613 *	US-PATENT-3,571,693	c 09	N71-27364 *	US-PATENT-3,592,478	c 09	N72-11224 *
US-PATENT-3,551,831	c 33	N75-27251 *	US-PATENT-3,571,699	c 09	N71-27053 *	US-PATENT-3,592,505	c 05	N72-11085 *
US-PATENT-3,552,124	c 28	N71-26642 *	US-PATENT-3,571,700	c 14	N71-27325 *	US-PATENT-3,592,545	c 14	N72-11364 *
US-PATENT-3,552,125	c 28	N71-26173 *	US-PATENT-3,571,707	c 10	N71-27338 *	US-PATENT-3,592,559	c 02	N72-11018 *
US-PATENT-3,553,002	c 18	N71-26100 *	US-PATENT-3,571,800	c 10	N71-27272 *	US-PATENT-3,592,628	c 15	N72-11387 *
US-PATENT-3,553,586	c 07	N71-26292 *	US-PATENT-3,571,801	c 08	N71-27255 *	US-PATENT-3,592,768	c 15	N72-11389 *
US-PATENT-3,553,704	c 10	N71-26142 *	US-PATENT-3,572,089	c 14	N71-27185 *	US-PATENT-3,593,001	c 15	N72-11392 *
US-PATENT-3,553,904	c 15	N71-26134 *	US-PATENT-3,572,104	c 28	N71-27094 *	US-PATENT-3,593,024	c 24	N72-11595 *
US-PATENT-3,554,466	c 31	N71-26537 *	US-PATENT-3,572,112	c 15	N71-27006 *	US-PATENT-3,593,132	c 09	N72-11225 *
US-PATENT-3,554,647	c 23	N71-26206 *	US-PATENT-3,572,610	c 28	N71-27095 *	US-PATENT-3,593,138	c 07	N72-11149 *
US-PATENT-3,554,806	c 03	N71-26084 *	US-PATENT-3,572,935	c 14	N71-27215 *	US-PATENT-3,593,175	c 10	N72-11256 *
US-PATENT-3,555,192	c 07	N71-26181 *	US-PATENT-3,573,078	c 27	N82-29451 *	US-PATENT-3,593,180	c 07	N72-11150 *
US-PATENT-3,555,361	c 10	N71-26531 *	US-PATENT-3,573,470	c 74	N78-33913 *	US-PATENT-3,593,194	c 16	N72-12440 *
US-PATENT-3,555,455	c 23	N71-26722 *	US-PATENT-3,573,504	c 33	N78-17294 *	US-PATENT-3,594,790	c 07	N72-12080 *
US-PATENT-3,555,483	c 35	N77-21393 *	US-PATENT-3,573,583	c 09	N71-28886 *	US-PATENT-3,594,803	c 09	N72-12136 *
US-PATENT-3,555,867	c 15	N71-26148 *	US-PATENT-3,573,797	c 08	N71-27057 *	US-PATENT-3,596,465	c 28	N72-11708 *

US-PATENT-3,596,510

REPORT NUMBER INDEX

US-PATENT-3,596,510	c 14	N72-11363 *	US-PATENT-3,619,896	c 15	N72-22487 *	US-PATENT-3,647,924	c 11	N72-23215 *
US-PATENT-3,596,554	c 15	N72-11385 *	US-PATENT-3,619,924	c 11	N72-22247 *	US-PATENT-3,648,043	c 09	N72-23173 *
US-PATENT-3,596,863	c 15	N72-11386 *	US-PATENT-3,620,018	c 28	N72-22771 *	US-PATENT-3,648,083	c 12	N72-25292 *
US-PATENT-3,597,281	c 03	N72-11062 *	US-PATENT-3,620,069	c 14	N72-22440 *	US-PATENT-3,648,152	c 03	N72-23048 *
US-PATENT-3,598,921	c 08	N72-11171 *	US-PATENT-3,620,076	c 11	N72-22246 *	US-PATENT-3,648,209	c 09	N72-27226 *
US-PATENT-3,599,216	c 07	N72-11148 *	US-PATENT-3,620,083	c 14	N72-22438 *	US-PATENT-3,648,250	c 09	N72-25248 *
US-PATENT-3,599,335	c 08	N72-11172 *	US-PATENT-3,620,095	c 15	N72-21463 *	US-PATENT-3,648,256	c 08	N72-25207 *
US-PATENT-3,599,443	c 05	N72-11084 *	US-PATENT-3,620,585	c 15	N72-22490 *	US-PATENT-3,648,275	c 08	N72-25206 *
US-PATENT-3,599,489	c 14	N72-11365 *	US-PATENT-3,620,595	c 14	N72-22445 *	US-PATENT-3,648,461	c 28	N72-23810 *
US-PATENT-3,600,046	c 15	N72-11388 *	US-PATENT-3,620,606	c 23	N72-22673 *	US-PATENT-3,648,516	c 35	N74-22095 *
US-PATENT-3,600,599	c 33	N78-17296 *	US-PATENT-3,620,718	c 17	N72-22535 *	US-PATENT-3,649,242	c 15	N72-25448 *
US-PATENT-3,602,920	c 11	N72-17183 *	US-PATENT-3,620,784	c 18	N72-23581 *	US-PATENT-3,649,353	c 26	N72-28762 *
US-PATENT-3,602,923	c 05	N72-22093 *	US-PATENT-3,620,791	c 18	N72-22566 *	US-PATENT-3,649,356	c 15	N72-25447 *
US-PATENT-3,602,979	c 15	N72-22492 *	US-PATENT-3,620,846	c 31	N72-22874 *	US-PATENT-3,649,462	c 11	N72-25284 *
US-PATENT-3,602,984	c 26	N72-17820 *	US-PATENT-3,621,130	c 08	N72-22164 *	US-PATENT-3,649,907	c 09	N72-23172 *
US-PATENT-3,603,092	c 28	N72-17843 *	US-PATENT-3,621,193	c 15	N72-23497 *	US-PATENT-3,649,921	c 05	N72-23085 *
US-PATENT-3,603,093	c 28	N72-18766 *	US-PATENT-3,621,194	c 15	N72-22491 *	US-PATENT-3,649,935	c 07	N72-25170 *
US-PATENT-3,603,260	c 33	N72-17947 *	US-PATENT-3,621,228	c 08	N72-22165 *	US-PATENT-3,650,095	c 14	N72-23457 *
US-PATENT-3,603,285	c 25	N75-29192 *	US-PATENT-3,621,277	c 10	N72-22236 *	US-PATENT-3,650,474	c 28	N72-23809 *
US-PATENT-3,603,382	c 33	N72-17948 *	US-PATENT-3,621,285	c 09	N72-22200 *	US-PATENT-3,651,008	c 27	N81-24258 *
US-PATENT-3,603,433	c 15	N72-17450 *	US-PATENT-3,621,287	c 09	N72-22201 *	US-PATENT-3,653,052	c 09	N72-25247 *
US-PATENT-3,603,532	c 30	N72-17873 *	US-PATENT-3,621,290	c 09	N72-22202 *	US-PATENT-3,653,882	c 18	N72-25539 *
US-PATENT-3,603,683	c 14	N72-17326 *	US-PATENT-3,621,294	c 09	N72-23171 *	US-PATENT-3,653,970	c 03	N72-24037 *
US-PATENT-3,603,686	c 16	N72-13437 *	US-PATENT-3,621,330	c 33	N77-21316 *	US-PATENT-3,654,036	c 03	N72-25019 *
US-PATENT-3,603,690	c 14	N72-17323 *	US-PATENT-3,621,362	c 09	N72-22203 *	US-PATENT-3,655,814	c 27	N81-15104 *
US-PATENT-3,603,722	c 07	N72-17109 *	US-PATENT-3,621,372	c 09	N72-25249 *	US-PATENT-3,656,313	c 23	N72-25619 *
US-PATENT-3,603,772	c 08	N72-22166 *	US-PATENT-3,621,406	c 09	N72-33204 *	US-PATENT-3,656,317	c 33	N72-25911 *
US-PATENT-3,603,798	c 09	N72-17152 *	US-PATENT-3,621,407	c 09	N72-21245 *	US-PATENT-3,656,352	c 14	N72-25411 *
US-PATENT-3,603,864	c 09	N72-17154 *	US-PATENT-3,621,565	c 09	N72-22199 *	US-PATENT-3,656,781	c 15	N72-25450 *
US-PATENT-3,603,892	c 09	N72-17155 *	US-PATENT-3,623,030	c 08	N72-21198 *	US-PATENT-3,657,190	c 23	N82-29358 *
US-PATENT-3,603,946	c 09	N72-17153 *	US-PATENT-3,623,094	c 10	N72-22235 *	US-PATENT-3,657,549	c 14	N72-25409 *
US-PATENT-3,603,974	c 14	N72-18411 *	US-PATENT-3,623,107	c 07	N72-21117 *	US-PATENT-3,657,644	c 14	N72-24477 *
US-PATENT-3,603,976	c 08	N72-18184 *	US-PATENT-3,623,114	c 07	N72-22127 *	US-PATENT-3,657,928	c 14	N72-25410 *
US-PATENT-3,605,032	c 10	N72-17172 *	US-PATENT-3,623,359	c 35	N77-27367 *	US-PATENT-3,658,295	c 15	N72-25451 *
US-PATENT-3,605,424	c 15	N72-17453 *	US-PATENT-3,623,360	c 14	N72-21405 *	US-PATENT-3,658,569	c 15	N72-25452 *
US-PATENT-3,605,482	c 14	N72-16282 *	US-PATENT-3,623,361	c 14	N72-21407 *	US-PATENT-3,658,608	c 27	N72-25699 *
US-PATENT-3,605,495	c 14	N72-17327 *	US-PATENT-3,623,394	c 15	N72-22488 *	US-PATENT-3,658,974	c 15	N72-24522 *
US-PATENT-3,605,519	c 14	N72-17324 *	US-PATENT-3,623,828	c 15	N72-22489 *	US-PATENT-3,659,043	c 14	N72-25412 *
US-PATENT-3,606,212	c 31	N72-18859 *	US-PATENT-3,623,861	c 17	N72-22530 *	US-PATENT-3,659,053	c 08	N72-25208 *
US-PATENT-3,606,470	c 46	N74-23068 *	US-PATENT-3,624,496	c 15	N72-21464 *	US-PATENT-3,659,148	c 09	N72-25250 *
US-PATENT-3,606,522	c 23	N72-23695 *	US-PATENT-3,624,598	c 21	N72-22619 *	US-PATENT-3,659,184	c 09	N72-25251 *
US-PATENT-3,606,979	c 15	N72-17454 *	US-PATENT-3,624,650	c 07	N72-21118 *	US-PATENT-3,659,225	c 16	N72-25485 *
US-PATENT-3,607,015	c 06	N72-17093 *	US-PATENT-3,624,659	c 09	N72-21246 *	US-PATENT-3,659,292	c 08	N72-25209 *
US-PATENT-3,607,076	c 06	N72-17094 *	US-PATENT-3,624,839	c 05	N72-20098 *	US-PATENT-3,660,240	c 06	N72-25149 *
US-PATENT-3,607,080	c 06	N72-17095 *	US-PATENT-3,625,018	c 15	N72-22484 *	US-PATENT-3,660,434	c 06	N72-25148 *
US-PATENT-3,607,338	c 18	N72-17532 *	US-PATENT-3,625,084	c 15	N72-22485 *	US-PATENT-3,660,704	c 15	N72-25456 *
US-PATENT-3,607,401	c 03	N72-15986 *	US-PATENT-3,625,766	c 03	N72-20032 *	US-PATENT-3,660,851	c 05	N72-25119 *
US-PATENT-3,607,495	c 15	N72-16330 *	US-PATENT-3,626,114	c 35	N79-16246 *	US-PATENT-3,662,337	c 08	N72-25210 *
US-PATENT-3,608,046	c 15	N72-16329 *	US-PATENT-3,626,189	c 14	N72-20381 *	US-PATENT-3,662,441	c 05	N72-25121 *
US-PATENT-3,608,365	c 15	N72-17452 *	US-PATENT-3,626,218	c 14	N72-22439 *	US-PATENT-3,662,547	c 15	N72-25455 *
US-PATENT-3,608,409	c 14	N72-16283 *	US-PATENT-3,626,298	c 07	N72-20140 *	US-PATENT-3,662,604	c 13	N72-25323 *
US-PATENT-3,608,844	c 15	N72-18477 *	US-PATENT-3,626,308	c 10	N72-20223 *	US-PATENT-3,662,661	c 31	N72-25842 *
US-PATENT-3,609,230	c 09	N72-17156 *	US-PATENT-3,626,828	c 14	N72-20380 *	US-PATENT-3,662,744	c 05	N72-25122 *
US-PATENT-3,609,271	c 09	N72-22204 *	US-PATENT-3,628,113	c 37	N77-27400 *	US-PATENT-3,662,973	c 21	N72-25595 *
US-PATENT-3,609,327	c 08	N72-22167 *	US-PATENT-3,629,068	c 22	N72-20597 *	US-PATENT-3,663,346	c 18	N72-25541 *
US-PATENT-3,609,353	c 14	N72-17328 *	US-PATENT-3,629,161	c 18	N72-22567 *	US-PATENT-3,663,347	c 18	N72-25540 *
US-PATENT-3,609,364	c 10	N72-17173 *	US-PATENT-3,630,276	c 33	N72-20915 *	US-PATENT-3,663,464	c 06	N72-25147 *
US-PATENT-3,609,387	c 09	N72-17157 *	US-PATENT-3,630,304	c 11	N72-20244 *	US-PATENT-3,663,521	c 06	N72-25152 *
US-PATENT-3,609,535	c 14	N72-17325 *	US-PATENT-3,630,627	c 03	N72-20033 *	US-PATENT-3,663,753	c 14	N72-25414 *
US-PATENT-3,609,567	c 10	N72-17171 *	US-PATENT-3,631,339	c 08	N72-20177 *	US-PATENT-3,663,828	c 09	N72-25262 *
US-PATENT-3,609,740	c 05	N72-16015 *	US-PATENT-3,631,351	c 10	N72-20224 *	US-PATENT-3,663,839	c 09	N72-25260 *
US-PATENT-3,610,365	c 15	N72-17451 *	US-PATENT-3,631,382	c 09	N72-20200 *	US-PATENT-3,663,843	c 09	N72-25255 *
US-PATENT-3,611,274	c 15	N72-17455 *	US-PATENT-3,631,737	c 15	N72-28495 *	US-PATENT-3,663,885	c 09	N72-25257 *
US-PATENT-3,611,330	c 23	N72-17747 *	US-PATENT-3,632,081	c 15	N72-20442 *	US-PATENT-3,663,886	c 09	N72-25258 *
US-PATENT-3,611,798	c 14	N72-22437 *	US-PATENT-3,632,140	c 15	N72-20445 *	US-PATENT-3,663,929	c 09	N72-25256 *
US-PATENT-3,611,801	c 14	N72-17329 *	US-PATENT-3,632,242	c 15	N72-20446 *	US-PATENT-3,663,938	c 03	N72-25020 *
US-PATENT-3,612,030	c 46	N74-23069 *	US-PATENT-3,632,923	c 09	N72-20199 *	US-PATENT-3,663,940	c 09	N72-25252 *
US-PATENT-3,612,391	c 11	N72-22245 *	US-PATENT-3,632,996	c 08	N72-20176 *	US-PATENT-3,663,941	c 09	N72-25253 *
US-PATENT-3,612,442	c 28	N72-22769 *	US-PATENT-3,633,048	c 10	N72-20221 *	US-PATENT-3,663,944	c 09	N72-25254 *
US-PATENT-3,612,645	c 14	N72-22441 *	US-PATENT-3,633,110	c 07	N72-20141 *	US-PATENT-3,664,185	c 15	N72-26371 *
US-PATENT-3,612,743	c 09	N72-22198 *	US-PATENT-3,634,383	c 27	N73-22710 *	US-PATENT-3,664,874	c 09	N72-25259 *
US-PATENT-3,612,895	c 09	N72-22197 *	US-PATENT-3,635,216	c 05	N72-20096 *	US-PATENT-3,665,064	c 05	N72-25120 *
US-PATENT-3,613,110	c 08	N72-21199 *	US-PATENT-3,635,537	c 33	N80-14330 *	US-PATENT-3,665,307	c 15	N72-25457 *
US-PATENT-3,613,111	c 08	N72-21200 *	US-PATENT-3,635,765	c 03	N72-20034 *	US-PATENT-3,665,313	c 07	N72-25173 *
US-PATENT-3,613,370	c 28	N72-22770 *	US-PATENT-3,636,539	c 03	N72-20031 *	US-PATENT-3,665,417	c 07	N72-25172 *
US-PATENT-3,613,454	c 35	N77-27368 *	US-PATENT-3,636,564	c 05	N72-22092 *	US-PATENT-3,665,467	c 14	N72-28437 *
US-PATENT-3,613,457	c 15	N72-22482 *	US-PATENT-3,636,623	c 15	N72-20444 *	US-PATENT-3,665,481	c 07	N72-25174 *
US-PATENT-3,613,794	c 12	N72-21310 *	US-PATENT-3,636,711	c 28	N72-20758 *	US-PATENT-3,665,589	c 09	N72-25261 *
US-PATENT-3,614,228	c 14	N72-21409 *	US-PATENT-3,636,966	c 05	N72-20097 *	US-PATENT-3,665,669	c 15	N72-25454 *
US-PATENT-3,614,327	c 08	N72-22162 *	US-PATENT-3,637,051	c 15	N72-20443 *	US-PATENT-3,665,670	c 11	N72-25287 *
US-PATENT-3,614,343	c 07	N72-21119 *	US-PATENT-3,637,170	c 21	N72-21624 *	US-PATENT-3,665,750	c 33	N72-25913 *
US-PATENT-3,614,431	c 14	N72-21408 *	US-PATENT-3,637,312	c 14	N72-20379 *	US-PATENT-3,665,751	c 32	N72-25877 *
US-PATENT-3,614,475	c 10	N72-16172 *	US-PATENT-3,637,842	c 06	N72-20121 *	US-PATENT-3,665,758	c 11	N72-25288 *
US-PATENT-3,614,557	c 26	N72-21701 *	US-PATENT-3,638,002	c 08	N72-21197 *	US-PATENT-3,666,051	c 15	N72-25453 *
US-PATENT-3,614,587	c 09	N72-22196 *	US-PATENT-3,638,066	c 10	N72-20225 *	US-PATENT-3,666,120	c 03	N72-25021 *
US-PATENT-3,614,648	c 09	N72-21247 *	US-PATENT-3,638,103	c 09	N72-21243 *	US-PATENT-3,666,566	c 03	N72-26031 *
US-PATENT-3,614,772	c 08	N72-22163 *	US-PATENT-3,638,114	c 10	N72-20222 *	US-PATENT-3,666,631	c 14	N72-25413 *
US-PATENT-3,614,898	c 15	N72-21462 *	US-PATENT-3,638,224	c 09	N72-21244 *	US-PATENT-3,666,718	c 06	N72-25151 *
US-PATENT-3,614,899	c 09	N72-22195 *	US-PATENT-3,639,250	c 14	N72-22443 *	US-PATENT-3,666,741	c 06	N72-25150 *
US-PATENT-3,615,021	c 15	N72-22483 *	US-PATENT-3,639,510	c 06	N72-22107 *	US-PATENT-3,666,942	c 06	N72-25146 *
US-PATENT-3,615,241	c 15	N72-21465 *	US-PATENT-3,639,809	c 15	N72-22486 *	US-PATENT-3,667,010	c 26	N72-25679 *
US-PATENT-3,615,465	c 06	N72-21094 *	US-PATENT-3,639,835	c 14	N72-22442 *	US-PATENT-3,667,039	c 26	N72-25680 *
US-PATENT-3,615,853	c 03	N72-22042 *	US-PATENT-3,640,256	c 28	N72-22772 *	US-PATENT-3,667,044	c 07	N72-25171 *
US-PATENT-3,616,338	c 15	N72-21466 *	US-PATENT-3,641,470	c 35	N78-17359 *	US-PATENT-3,668,956	c 15	N72-27485 *
US-PATENT-3,616,528	c 03	N72-22041 *	US-PATENT-3,647,276	c 14	N72-22444 *	US-PATENT-3,669,110	c 05	N72-27103 *
US-PATENT-3,617,804	c 25	N72-24753 *	US-PATENT-3,647,529	c 27	N74-23125 *	US-PATENT-3,669,393	c 15	N72-27484 *

REPORT NUMBER INDEX

US-PATENT-3,759,443

US-PATENT-3,670,097	c 23	N72-27728 *	US-PATENT-3,702,775	c 06	N73-13128 *	US-PATENT-3,737,181	c 33	N73-26958 *
US-PATENT-3,670,168	c 14	N72-27409 *	US-PATENT-3,702,791	c 15	N73-13465 *	US-PATENT-3,737,217	c 05	N73-26072 *
US-PATENT-3,670,202	c 14	N72-27411 *	US-PATENT-3,702,841	c 18	N73-13562 *	US-PATENT-3,737,231	c 07	N73-26119 *
US-PATENT-3,670,241	c 14	N72-27408 *	US-PATENT-3,702,898	c 10	N73-13235 *	US-PATENT-3,737,237	c 26	N73-26751 *
US-PATENT-3,670,290	c 09	N72-28225 *	US-PATENT-3,702,933	c 23	N73-13662 *	US-PATENT-3,737,639	c 10	N73-26230 *
US-PATENT-3,670,559	c 33	N72-27959 *	US-PATENT-3,702,951	c 09	N73-13208 *	US-PATENT-3,737,676	c 10	N73-26229 *
US-PATENT-3,670,563	c 14	N72-27412 *	US-PATENT-3,702,972	c 16	N73-13489 *	US-PATENT-3,737,757	c 10	N73-26228 *
US-PATENT-3,670,564	c 11	N72-27262 *	US-PATENT-3,702,979	c 14	N73-13420 *	US-PATENT-3,737,762	c 14	N73-26486 *
US-PATENT-3,670,890	c 05	N72-27102 *	US-PATENT-3,704,284	c 74	N81-19898 *	US-PATENT-3,737,776	c 07	N73-26118 *
US-PATENT-3,671,105	c 26	N72-27784 *	US-PATENT-3,704,659	c 14	N73-14427 *	US-PATENT-3,737,781	c 10	N73-25241 *
US-PATENT-3,671,329	c 14	N72-27410 *	US-PATENT-3,705,255	c 15	N73-14469 *	US-PATENT-3,737,815	c 09	N73-26195 *
US-PATENT-3,671,497	c 06	N72-27144 *	US-PATENT-3,705,288	c 15	N73-14468 *	US-PATENT-3,737,824	c 26	N73-26752 *
US-PATENT-3,671,798	c 10	N72-27246 *	US-PATENT-3,705,316	c 09	N73-14214 *	US-PATENT-3,737,905	c 14	N73-26432 *
US-PATENT-3,672,999	c 03	N72-27053 *	US-PATENT-3,705,406	c 07	N73-14130 *	US-PATENT-3,737,912	c 07	N73-26117 *
US-PATENT-3,673,424	c 09	N72-27227 *	US-PATENT-3,706,221	c 14	N73-14429 *	US-PATENT-3,739,646	c 04	N76-26175 *
US-PATENT-3,673,440	c 09	N72-27228 *	US-PATENT-3,706,230	c 31	N73-14855 *	US-PATENT-3,740,671	c 10	N73-27171 *
US-PATENT-3,675,332	c 14	N72-28436 *	US-PATENT-3,706,281	c 31	N73-14853 *	US-PATENT-3,740,725	c 08	N73-26176 *
US-PATENT-3,675,376	c 15	N72-28496 *	US-PATENT-3,706,583	c 18	N73-14584 *	US-PATENT-3,741,001	c 14	N73-27376 *
US-PATENT-3,675,712	c 03	N72-28025 *	US-PATENT-3,706,970	c 21	N73-14692 *	US-PATENT-3,742,316	c 09	N73-27150 * #
US-PATENT-3,675,910	c 17	N72-28535 *	US-PATENT-3,708,359	c 27	N73-16764 *	US-PATENT-3,744,128	c 09	N73-28083 *
US-PATENT-3,675,935	c 15	N72-29488 *	US-PATENT-3,708,419	c 33	N73-16918 *	US-PATENT-3,744,148	c 14	N73-28489 *
US-PATENT-3,676,084	c 17	N72-28536 *	US-PATENT-3,708,671	c 14	N73-16483 *	US-PATENT-3,744,247	c 28	N73-27699 *
US-PATENT-3,676,674	c 14	N72-29464 *	US-PATENT-3,708,674	c 14	N73-16484 *	US-PATENT-3,744,294	c 14	N73-27379 *
US-PATENT-3,676,754	c 26	N72-28761 *	US-PATENT-3,709,663	c 06	N73-16106 *	US-PATENT-3,744,305	c 12	N73-28144 *
US-PATENT-3,676,772	c 10	N72-28240 *	US-PATENT-3,710,122	c 16	N73-16536 *	US-PATENT-3,744,320	c 14	N73-28487 *
US-PATENT-3,676,787	c 16	N72-28521 *	US-PATENT-3,710,257	c 07	N73-16121 *	US-PATENT-3,744,480	c 05	N73-27941 *
US-PATENT-3,676,809	c 09	N72-29172 *	US-PATENT-3,710,261	c 10	N73-16205 *	US-PATENT-3,744,510	c 15	N73-27406 *
US-PATENT-3,678,191	c 10	N72-31273 *	US-PATENT-3,710,329	c 10	N73-16206 *	US-PATENT-3,744,738	c 14	N73-27378 *
US-PATENT-3,678,654	c 06	N72-31140 *	US-PATENT-3,711,042	c 02	N73-19004 *	US-PATENT-3,744,739	c 15	N77-10112 *
US-PATENT-3,678,685	c 21	N72-31637 *	US-PATENT-3,711,701	c 74	N77-21941 *	US-PATENT-3,744,794	c 14	N73-27377 *
US-PATENT-3,678,771	c 37	N74-23070 *	US-PATENT-3,712,120	c 14	N73-19421 *	US-PATENT-3,744,912	c 16	N73-30476 *
US-PATENT-3,679,360	c 04	N72-33072 *	US-PATENT-3,712,121	c 14	N73-19420 *	US-PATENT-3,744,913	c 14	N73-28490 *
US-PATENT-3,679,899	c 06	N72-31141 *	US-PATENT-3,712,132	c 14	N73-20478 *	US-PATENT-3,744,972	c 17	N73-27446 *
US-PATENT-3,680,142	c 09	N72-31235 *	US-PATENT-3,712,195	c 14	N73-19419 *	US-PATENT-3,745,082	c 18	N73-30532 *
US-PATENT-3,680,144	c 07	N72-32169 *	US-PATENT-3,712,591	c 15	N73-19458 *	US-PATENT-3,745,089	c 06	N73-27086 *
US-PATENT-3,680,830	c 15	N72-31483 *	US-PATENT-3,713,163	c 09	N73-19234 *	US-PATENT-3,745,090	c 04	N73-27052 *
US-PATENT-3,681,581	c 08	N72-31226 *	US-PATENT-3,713,290	c 28	N73-19793 *	US-PATENT-3,745,149	c 06	N73-27980 *
US-PATENT-3,686,542	c 14	N72-31446 *	US-PATENT-3,713,480	c 05	N73-20137 *	US-PATENT-3,745,255	c 07	N73-28012 *
US-PATENT-3,690,291	c 15	N72-32487 *	US-PATENT-3,713,987	c 15	N73-20514 *	US-PATENT-3,745,300	c 15	N73-28515 *
US-PATENT-3,692,533	c 05	N72-33096 *	US-PATENT-3,714,332	c 15	N73-19457 *	US-PATENT-3,745,352	c 08	N73-30135 *
US-PATENT-3,693,002	c 25	N72-32688 *	US-PATENT-3,714,405	c 10	N73-20253 *	US-PATENT-3,745,357	c 14	N73-28488 *
US-PATENT-3,693,105	c 10	N72-33230 *	US-PATENT-3,714,432	c 14	N73-20475 *	US-PATENT-3,745,410	c 09	N73-30181 *
US-PATENT-3,693,346	c 15	N72-33477 *	US-PATENT-3,714,526	c 09	N73-19235 *	US-PATENT-3,745,475	c 14	N73-30386 *
US-PATENT-3,693,418	c 14	N72-33377 *	US-PATENT-3,714,588	c 09	N73-20231 *	US-PATENT-3,745,739	c 15	N73-27405 *
US-PATENT-3,694,041	c 15	N72-33476 *	US-PATENT-3,714,624	c 14	N73-20474 *	US-PATENT-3,745,816	c 33	N73-27796 *
US-PATENT-3,694,094	c 14	N72-32452 *	US-PATENT-3,714,645	c 08	N73-20217 *	US-PATENT-3,746,998	c 07	N73-30113 *
US-PATENT-3,694,313	c 24	N72-33681 *	US-PATENT-3,714,821	c 14	N73-20476 *	US-PATENT-3,747,111	c 07	N73-28013 *
US-PATENT-3,694,581	c 08	N72-33172 *	US-PATENT-3,714,833	c 11	N73-20267 *	US-PATENT-3,748,722	c 15	N73-33383 *
US-PATENT-3,694,655	c 25	N72-33696 *	US-PATENT-3,715,092	c 03	N73-20039 *	US-PATENT-3,748,853	c 23	N73-30665 *
US-PATENT-3,694,700	c 09	N72-33205 *	US-PATENT-3,715,152	c 23	N73-20741 *	US-PATENT-3,748,905	c 14	N73-30395 *
US-PATENT-3,694,753	c 07	N72-33146 *	US-PATENT-3,715,590	c 14	N73-20477 *	US-PATENT-3,749,123	c 15	N73-30459 *
US-PATENT-3,694,771	c 09	N73-15235 *	US-PATENT-3,715,600	c 03	N73-20040 *	US-PATENT-3,749,156	c 31	N73-30829 *
US-PATENT-3,695,101	c 11	N73-12264 *	US-PATENT-3,715,660	c 07	N73-20175 *	US-PATENT-3,749,205	c 15	N73-30460 *
US-PATENT-3,696,418	c 09	N73-12211 *	US-PATENT-3,715,663	c 07	N73-20174 *	US-PATENT-3,749,332	c 31	N73-32750 *
US-PATENT-3,696,833	c 11	N73-12265 *	US-PATENT-3,715,693	c 09	N73-20232 *	US-PATENT-3,749,362	c 15	N73-30457 *
US-PATENT-3,697,021	c 15	N73-12486 *	US-PATENT-3,715,723	c 07	N73-20176 *	US-PATENT-3,749,831	c 07	N73-30115 *
US-PATENT-3,697,630	c 15	N73-12489 *	US-PATENT-3,715,915	c 32	N73-20740 *	US-PATENT-3,749,911	c 14	N73-30389 *
US-PATENT-3,697,705	c 35	N77-21392 *	US-PATENT-3,718,863	c 10	N73-20254 *	US-PATENT-3,750,016	c 14	N73-30388 *
US-PATENT-3,697,733	c 08	N73-12176 *	US-PATENT-3,719,891	c 07	N73-25160 *	US-PATENT-3,750,035	c 33	N77-13315 *
US-PATENT-3,697,950	c 08	N73-12177 *	US-PATENT-3,720,075	c 33	N73-25952 *	US-PATENT-3,750,067	c 09	N73-30185 *
US-PATENT-3,697,968	c 21	N73-13644 *	US-PATENT-3,720,208	c 05	N73-25125 *	US-PATENT-3,750,131	c 10	N73-30205 *
US-PATENT-3,698,385	c 05	N73-13114 *	US-PATENT-3,723,745	c 14	N73-25462 *	US-PATENT-3,750,168	c 21	N73-30641 *
US-PATENT-3,698,412	c 14	N73-13418 *	US-PATENT-3,728,861	c 28	N73-24783 *	US-PATENT-3,750,479	c 05	N73-30078 *
US-PATENT-3,698,659	c 11	N73-13257 *	US-PATENT-3,729,068	c 15	N73-25512 *	US-PATENT-3,751,123	c 15	N73-30458 *
US-PATENT-3,698,667	c 02	N73-13008 *	US-PATENT-3,729,129	c 08	N73-25206 *	US-PATENT-3,751,727	c 05	N73-32012 *
US-PATENT-3,698,848	c 15	N73-13464 *	US-PATENT-3,729,260	c 14	N73-25463 *	US-PATENT-3,751,733	c 05	N73-32013 *
US-PATENT-3,699,511	c 21	N73-13643 *	US-PATENT-3,729,343	c 14	N73-24472 *	US-PATENT-3,751,913	c 06	N73-30097 *
US-PATENT-3,699,645	c 14	N73-13417 *	US-PATENT-3,729,676	c 14	N73-24473 *	US-PATENT-3,751,980	c 14	N73-32326 *
US-PATENT-3,699,799	c 15	N73-13463 *	US-PATENT-3,729,736	c 07	N73-25161 *	US-PATENT-3,752,556	c 35	N74-17153 *
US-PATENT-3,699,807	c 14	N73-13416 *	US-PATENT-3,729,743	c 07	N73-24176 *	US-PATENT-3,752,559	c 14	N73-30393 *
US-PATENT-3,699,811	c 14	N73-13415 *	US-PATENT-3,729,935	c 28	N73-24784 *	US-PATENT-3,752,564	c 23	N73-30666 *
US-PATENT-3,700,005	c 15	N73-13462 *	US-PATENT-3,730,287	c 11	N73-26238 *	US-PATENT-3,752,665	c 18	N73-32437 *
US-PATENT-3,700,192	c 31	N73-13898 *	US-PATENT-3,730,891	c 18	N73-26572 *	US-PATENT-3,752,847	c 06	N73-30098 *
US-PATENT-3,700,193	c 30	N73-12884 *	US-PATENT-3,731,528	c 12	N73-25262 *	US-PATENT-3,752,986	c 14	N73-30392 *
US-PATENT-3,700,291	c 15	N73-12488 *	US-PATENT-3,731,531	c 14	N73-25460 *	US-PATENT-3,752,993	c 21	N73-30640 *
US-PATENT-3,700,334	c 14	N73-12446 *	US-PATENT-3,732,040	c 15	N73-24513 *	US-PATENT-3,752,996	c 91	N74-13130 *
US-PATENT-3,700,503	c 14	N73-12447 *	US-PATENT-3,732,158	c 17	N73-24569 *	US-PATENT-3,753,148	c 09	N73-32111 *
US-PATENT-3,700,538	c 18	N73-12604 *	US-PATENT-3,732,397	c 33	N74-14935 *	US-PATENT-3,754,236	c 08	N73-32081 *
US-PATENT-3,700,575	c 15	N73-12487 *	US-PATENT-3,732,405	c 10	N73-25240 *	US-PATENT-3,754,263	c 09	N73-32110 *
US-PATENT-3,700,603	c 14	N73-14428 *	US-PATENT-3,732,409	c 08	N73-26175 *	US-PATENT-3,754,976	c 15	N73-32360 *
US-PATENT-3,700,812	c 10	N73-12244 *	US-PATENT-3,732,567	c 14	N73-25461 *	US-PATENT-3,755,265	c 06	N73-33076 *
US-PATENT-3,700,868	c 09	N73-13209 *	US-PATENT-3,733,350	c 06	N73-26100 *	US-PATENT-3,755,283	c 06	N73-32029 *
US-PATENT-3,700,869	c 08	N73-12175 *	US-PATENT-3,733,424	c 32	N73-26910 *	US-PATENT-3,755,686	c 03	N73-19888 *
US-PATENT-3,700,893	c 14	N73-12444 *	US-PATENT-3,733,463	c 14	N73-26430 *	US-PATENT-3,756,920	c 05	N73-32011 *
US-PATENT-3,700,897	c 14	N73-12445 *	US-PATENT-3,734,432	c 02	N73-26004 *	US-PATENT-3,757,183	c 09	N73-32107 *
US-PATENT-3,700,961	c 23	N73-13660 *	US-PATENT-3,735,206	c 10	N73-25243 *	US-PATENT-3,757,476	c 31	N73-32749 *
US-PATENT-3,701,631	c 17	N73-12547 *	US-PATENT-3,735,591	c 25	N73-25760 *	US-PATENT-3,757,568	c 14	N73-32323 *
US-PATENT-3,701,894	c 07	N73-13149 *	US-PATENT-3,736,453	c 33	N77-22386 *	US-PATENT-3,757,659	c 14	N73-32322 *
US-PATENT-3,702,463	c 08	N73-13187 *	US-PATENT-3,736,607	c 02	N73-26006 *	US-PATENT-3,758,112	c 05	N73-32014 *
US-PATENT-3,702,520	c 32	N73-13921 *	US-PATENT-3,736,764	c 05	N73-26071 *	US-PATENT-3,758,718	c 10	N73-32143 *
US-PATENT-3,702,532	c 15	N73-13467 *	US-PATENT-3,736,849	c 14	N73-26431 *	US-PATENT-3,758,741	c 15	N73-32358 *
US-PATENT-3,702,536	c 28	N73-13773 *	US-PATENT-3,736,938	c 05	N73-27062 *	US-PATENT-3,758,781	c 14	N73-32317 *
US-PATENT-3,702,575	c 15	N73-13466 *	US-PATENT-3,736,956	c 15	N73-26472 *	US-PATENT-3,758,877	c 16	N73-32391 *
US-PATENT-3,702,688	c 31	N73-14854 *	US-PATENT-3,737,117	c 31	N73-26876 *	US-PATENT-3,759,152	c 14	N73-32319 *
US-PATENT-3,702,735	c 23	N73-13661 *	US-PATENT-3,737,118	c 15	N73-25513 *	US-PATENT-3,759,249	c 05	N73-32015 *
US-PATENT-3,702,762	c 06	N73-13129 *	US-PATENT-3,737,121	c 02	N73-26005 *	US-PATENT-3,759,443	c 28	N73-32606 *

US-PATENT-3,759,588	c 15	N73-32359 *	US-PATENT-3,790,037	c 54	N74-17853 *	US-PATENT-3,817,622	c 75	N74-30156 *
US-PATENT-3,759,672	c 14	N73-32320 *	US-PATENT-3,790,347	c 37	N74-18123 *	US-PATENT-3,817,627	c 35	N74-27860 *
US-PATENT-3,759,746	c 09	N73-32108 *	US-PATENT-3,790,409	c 44	N74-19693 *	US-PATENT-3,818,325	c 44	N74-27519 *
US-PATENT-3,759,747	c 44	N74-19692 *	US-PATENT-3,790,432	c 37	N74-18126 *	US-PATENT-3,818,346	c 33	N74-27705 *
US-PATENT-3,759,787	c 22	N73-32528 *	US-PATENT-3,790,650	c 31	N74-18124 *	US-PATENT-3,818,767	c 35	N74-28097 *
US-PATENT-3,760,239	c 09	N73-32112 *	US-PATENT-3,790,795	c 35	N74-18088 *	US-PATENT-3,818,775	c 37	N74-27901 *
US-PATENT-3,760,248	c 10	N73-32145 *	US-PATENT-3,790,906	c 33	N74-17927 *	US-PATENT-3,818,814	c 31	N74-27902 *
US-PATENT-3,760,257	c 09	N73-32109 *	US-PATENT-3,791,207	c 09	N74-17955 *	US-PATENT-3,819,299	c 37	N74-27904 *
US-PATENT-3,760,268	c 14	N73-32318 *	US-PATENT-3,792,399	c 33	N74-17928 *	US-PATENT-3,819,419	c 34	N74-27861 *
US-PATENT-3,760,394	c 10	N73-32144 *	US-PATENT-3,793,109	c 31	N74-18089 *	US-PATENT-3,819,440	c 32	N74-27612 *
US-PATENT-3,762,884	c 17	N73-32414 *	US-PATENT-3,795,134	c 09	N74-19528 *	US-PATENT-3,819,550	c 27	N74-27037 *
US-PATENT-3,762,918	c 17	N73-32415 *	US-PATENT-3,795,448	c 72	N74-19310 *	US-PATENT-3,820,095	c 33	N74-27862 *
US-PATENT-3,763,204	c 06	N73-32030 *	US-PATENT-3,795,840	c 33	N74-17929 *	US-PATENT-3,820,286	c 37	N74-27905 *
US-PATENT-3,763,552	c 26	N73-32571 *	US-PATENT-3,795,858	c 35	N74-18090 *	US-PATENT-3,820,388	c 35	N74-27865 *
US-PATENT-3,763,691	c 14	N73-32327 *	US-PATENT-3,795,862	c 33	N74-17930 *	US-PATENT-3,820,529	c 52	N74-27864 *
US-PATENT-3,763,708	c 35	N74-18323 *	US-PATENT-3,795,900	c 35	N74-17885 *	US-PATENT-3,820,630	c 07	N74-27490 *
US-PATENT-3,763,740	c 11	N73-32152 *	US-PATENT-3,795,910	c 44	N74-19870 *	US-PATENT-3,820,741	c 37	N74-27903 *
US-PATENT-3,763,928	c 33	N73-32818 *	US-PATENT-3,796,473	c 37	N74-20063 *	US-PATENT-3,820,918	c 07	N74-28226 *
US-PATENT-3,764,097	c 02	N74-10034 *	US-PATENT-3,796,592	c 24	N74-19769 *	US-PATENT-3,821,102	c 34	N74-27744 *
US-PATENT-3,764,209	c 14	N73-33361 *	US-PATENT-3,797,098	c 37	N74-21057 *	US-PATENT-3,821,462	c 33	N74-27683 *
US-PATENT-3,764,220	c 16	N73-33397 *	US-PATENT-3,797,919	c 70	N74-21300 *	US-PATENT-3,821,546	c 33	N74-27682 *
US-PATENT-3,764,790	c 33	N74-10223 *	US-PATENT-3,798,741	c 31	N74-21059 *	US-PATENT-3,821,556	c 74	N74-27866 *
US-PATENT-3,764,850	c 33	N74-10195 *	US-PATENT-3,798,748	c 37	N74-21055 *	US-PATENT-3,824,707	c 09	N74-30597 *
US-PATENT-3,764,933	c 33	N74-10194 *	US-PATENT-3,798,778	c 19	N74-21015 *	US-PATENT-3,825,760	c 19	N74-29410 *
US-PATENT-3,765,229	c 35	N74-10415 *	US-PATENT-3,798,896	c 37	N74-21060 *	US-PATENT-3,826,448	c 08	N74-30421 *
US-PATENT-3,765,958	c 26	N74-10521 *	US-PATENT-3,799,149	c 52	N74-20728 *	US-PATENT-3,826,726	c 25	N74-30502 *
US-PATENT-3,766,315	c 32	N74-10132 *	US-PATENT-3,799,475	c 02	N74-20646 *	US-PATENT-3,826,729	c 20	N74-31269 *
US-PATENT-3,766,380	c 35	N74-11284 *	US-PATENT-3,799,793	c 74	N74-20008 *	US-PATENT-3,826,964	c 33	N74-29556 *
US-PATENT-3,767,212	c 37	N74-10474 *	US-PATENT-3,799,813	c 76	N74-20329 *	US-PATENT-3,827,288	c 71	N74-31148 *
US-PATENT-3,769,544	c 31	N78-17238 *	US-PATENT-3,800,074	c 36	N74-20009 *	US-PATENT-3,827,807	c 89	N74-30886 *
US-PATENT-3,769,623	c 32	N74-11000 *	US-PATENT-3,800,082	c 71	N74-21014 *	US-PATENT-3,828,137	c 32	N74-30524 *
US-PATENT-3,769,689	c 37	N74-11301 *	US-PATENT-3,800,224	c 32	N74-19790 *	US-PATENT-3,828,138	c 32	N74-30523 *
US-PATENT-3,769,834	c 52	N74-10975 *	US-PATENT-3,800,227	c 32	N74-20809 *	US-PATENT-3,828,524	c 34	N74-30608 *
US-PATENT-3,770,021	c 33	N74-11050 *	US-PATENT-3,800,237	c 32	N74-19788 *	US-PATENT-3,829,237	c 07	N74-31270 *
US-PATENT-3,770,903	c 35	N74-11283 *	US-PATENT-3,800,253	c 37	N74-21056 *	US-PATENT-3,829,839	c 60	N76-18800 *
US-PATENT-3,770,933	c 37	N74-11300 *	US-PATENT-3,801,617	c 37	N74-21058 *	US-PATENT-3,830,060	c 44	N74-33379 *
US-PATENT-3,771,037	c 08	N74-10942 *	US-PATENT-3,802,249	c 35	N74-21019 *	US-PATENT-3,830,094	c 35	N74-32879 *
US-PATENT-3,771,040	c 33	N74-11049 *	US-PATENT-3,802,253	c 52	N74-20726 *	US-PATENT-3,830,335	c 07	N74-32418 *
US-PATENT-3,771,074	c 36	N74-11313 *	US-PATENT-3,802,262	c 35	N74-21018 *	US-PATENT-3,830,431	c 07	N74-33218 *
US-PATENT-3,771,959	c 25	N74-12813 *	US-PATENT-3,802,660	c 37	N74-21065 *	US-PATENT-3,830,552	c 37	N74-32921 *
US-PATENT-3,772,174	c 27	N74-13270 *	US-PATENT-3,802,753	c 37	N74-21064 *	US-PATENT-3,830,609	c 31	N74-32920 *
US-PATENT-3,772,216	c 27	N74-12812 *	US-PATENT-3,802,779	c 74	N74-21304 *	US-PATENT-3,830,673	c 28	N74-33209 *
US-PATENT-3,772,220	c 27	N74-12814 *	US-PATENT-3,803,090	c 27	N74-21156 *	US-PATENT-3,831,098	c 33	N74-32711 *
US-PATENT-3,772,272	c 33	N74-12887 *	US-PATENT-3,803,393	c 60	N74-20836 *	US-PATENT-3,831,117	c 33	N74-32712 *
US-PATENT-3,772,418	c 31	N74-13177 *	US-PATENT-3,803,445	c 32	N74-20813 *	US-PATENT-3,831,142	c 32	N74-32598 *
US-PATENT-3,772,691	c 32	N74-12912 *	US-PATENT-3,803,617	c 32	N74-20863 *	US-PATENT-3,832,290	c 20	N74-32919 *
US-PATENT-3,773,038	c 52	N74-12778 *	US-PATENT-3,804,472	c 37	N74-21061 *	US-PATENT-3,832,735	c 54	N74-32546 *
US-PATENT-3,773,913	c 46	N74-13011 *	US-PATENT-3,804,506	c 33	N74-20861 *	US-PATENT-3,832,764	c 37	N74-32918 *
US-PATENT-3,775,101	c 37	N74-13179 *	US-PATENT-3,804,525	c 36	N74-21091 *	US-PATENT-3,832,781	c 35	N74-32877 *
US-PATENT-3,775,570	c 35	N78-29421 *	US-PATENT-3,804,703	c 37	N74-21063 *	US-PATENT-3,832,903	c 35	N74-32878 *
US-PATENT-3,776,028	c 35	N74-13129 *	US-PATENT-3,805,266	c 32	N74-20864 *	US-PATENT-3,833,322	c 31	N74-32917 *
US-PATENT-3,776,432	c 37	N74-13178 *	US-PATENT-3,805,303	c 54	N74-20725 *	US-PATENT-3,833,336	c 25	N74-33378 *
US-PATENT-3,776,455	c 04	N74-13420 *	US-PATENT-3,805,622	c 35	N74-21062 *	US-PATENT-3,833,857	c 33	N74-32660 *
US-PATENT-3,777,200	c 33	N74-12913 *	US-PATENT-3,806,756	c 33	N74-21850 *	US-PATENT-3,835,318	c 35	N74-34857 *
US-PATENT-3,777,490	c 20	N74-13502 *	US-PATENT-3,806,802	c 35	N74-21017 *	US-PATENT-3,837,285	c 85	N74-34672 *
US-PATENT-3,777,546	c 35	N74-13132 *	US-PATENT-3,806,815	c 32	N74-20811 *	US-PATENT-3,837,908	c 76	N79-16678 *
US-PATENT-3,777,552	c 38	N74-15130 *	US-PATENT-3,806,816	c 32	N74-20810 *	US-PATENT-3,840,829	c 33	N74-34638 *
US-PATENT-3,777,605	c 39	N74-13131 *	US-PATENT-3,806,831	c 33	N74-20862 *	US-PATENT-3,841,973	c 35	N75-12272 *
US-PATENT-3,777,811	c 34	N78-17336 *	US-PATENT-3,806,834	c 36	N76-18427 *	US-PATENT-3,842,485	c 37	N75-12326 *
US-PATENT-3,777,942	c 54	N74-12779 *	US-PATENT-3,806,835	c 33	N74-20859 *	US-PATENT-3,842,509	c 35	N75-12273 *
US-PATENT-3,778,685	c 33	N74-12951 *	US-PATENT-3,806,932	c 33	N74-20860 *	US-PATENT-3,842,656	c 76	N75-12810 *
US-PATENT-3,778,786	c 60	N74-12888 *	US-PATENT-3,807,384	c 34	N74-23039 *	US-PATENT-3,845,466	c 74	N81-19896 *
US-PATENT-3,778,791	c 36	N74-13205 *	US-PATENT-3,807,656	c 18	N74-22136 *	US-PATENT-3,846,243	c 25	N75-12086 *
US-PATENT-3,779,788	c 70	N74-13436 *	US-PATENT-3,808,464	c 33	N74-22814 *	US-PATENT-3,847,115	c 31	N75-12161 *
US-PATENT-3,780,151	c 31	N74-14133 *	US-PATENT-3,808,511	c 33	N74-22864 *	US-PATENT-3,847,141	c 35	N75-12271 *
US-PATENT-3,780,424	c 44	N74-14784 *	US-PATENT-3,808,517	c 33	N74-22885 *	US-PATENT-3,847,208	c 34	N75-12222 *
US-PATENT-3,780,563	c 35	N74-15092 *	US-PATENT-3,809,481	c 35	N74-23040 *	US-PATENT-3,847,652	c 25	N75-12087 *
US-PATENT-3,780,827	c 07	N74-15453 *	US-PATENT-3,809,601	c 37	N74-23064 *	US-PATENT-3,847,689	c 74	N75-12732 *
US-PATENT-3,780,966	c 19	N74-15089 *	US-PATENT-3,809,800	c 33	N74-22865 *	US-PATENT-3,848,190	c 35	N75-12270 *
US-PATENT-3,781,111	c 36	N74-15145 *	US-PATENT-3,809,871	c 52	N74-22771 *	US-PATENT-3,849,554	c 52	N75-15270 *
US-PATENT-3,781,549	c 35	N74-15090 *	US-PATENT-3,810,829	c 31	N74-23065 *	US-PATENT-3,849,668	c 54	N75-12616 *
US-PATENT-3,781,562	c 35	N74-15091 *	US-PATENT-3,811,044	c 34	N74-23066 *	US-PATENT-3,849,720	c 33	N77-26387 *
US-PATENT-3,781,902	c 35	N74-15831 *	US-PATENT-3,811,094	c 33	N74-21851 *	US-PATENT-3,849,865	c 37	N75-13261 *
US-PATENT-3,781,933	c 54	N74-14845 *	US-PATENT-3,811,429	c 52	N74-27566 *	US-PATENT-3,849,875	c 35	N75-13213 *
US-PATENT-3,781,958	c 37	N74-15128 *	US-PATENT-3,811,901	c 27	N82-29454 *	US-PATENT-3,849,877	c 24	N75-13032 *
US-PATENT-3,782,177	c 38	N74-15395 *	US-PATENT-3,812,358	c 35	N74-26949 *	US-PATENT-3,850,169	c 54	N75-13531 *
US-PATENT-3,782,181	c 34	N74-15652 *	US-PATENT-3,812,783	c 28	N74-27425 *	US-PATENT-3,850,388	c 05	N75-12930 *
US-PATENT-3,782,205	c 35	N74-15094 *	US-PATENT-3,812,924	c 35	N74-26945 *	US-PATENT-3,850,567	c 31	N75-13111 *
US-PATENT-3,782,334	c 51	N74-15778 *	US-PATENT-3,812,936	c 37	N74-26976 *	US-PATENT-3,850,754	c 51	N75-13502 *
US-PATENT-3,782,698	c 35	N74-15093 *	US-PATENT-3,813,183	c 37	N74-25968 *	US-PATENT-3,851,162	c 60	N75-13539 *
US-PATENT-3,782,699	c 35	N74-15126 *	US-PATENT-3,813,875	c 15	N74-27360 *	US-PATENT-3,851,238	c 33	N75-13139 *
US-PATENT-3,782,737	c 37	N74-15125 *	US-PATENT-3,813,937	c 34	N74-27859 *	US-PATENT-3,851,250	c 15	N75-13007 *
US-PATENT-3,782,825	c 35	N74-15146 *	US-PATENT-3,814,083	c 52	N74-26626 *	US-PATENT-3,853,003	c 09	N75-12969 *
US-PATENT-3,782,835	c 74	N74-15095 *	US-PATENT-3,814,350	c 18	N74-27397 *	US-PATENT-3,853,075	c 09	N75-12968 *
US-PATENT-3,782,904	c 35	N74-15127 *	US-PATENT-3,814,645	c 24	N74-30001 *	US-PATENT-3,854,097	c 75	N75-13625 *
US-PATENT-3,783,250	c 62	N74-14920 *	US-PATENT-3,814,653	c 24	N74-27035 *	US-PATENT-3,854,113	c 37	N75-13265 *
US-PATENT-3,783,354	c 33	N74-14956 *	US-PATENT-3,814,678	c 25	N74-26948 *	US-PATENT-3,855,873	c 37	N75-13266 *
US-PATENT-3,783,399	c 33	N74-14939 *	US-PATENT-3,814,939	c 25	N74-26947 *	US-PATENT-3,856,042	c 37	N75-15050 *
US-PATENT-3,783,443	c 35	N74-16135 *	US-PATENT-3,815,048	c 33	N74-26732 *	US-PATENT-3,856,402	c 36	N75-15028 *
US-PATENT-3,784,499	c 27	N74-17283 *	US-PATENT-3,815,109	c 52	N74-26625 *	US-PATENT-3,856,471	c 25	N75-14844 *
US-PATENT-3,785,836	c 27	N82-29452 *	US-PATENT-3,815,205	c 33	N74-26977 *	US-PATENT-3,856,534	c 23	N75-14834 *
US-PATENT-3,787,959	c 37	N74-18128 *	US-PATENT-3,815,969	c 35	N74-26946 *	US-PATENT-3,857,031	c 35	N75-15014 *
US-PATENT-3,788,163	c 37	N74-18127 *	US-PATENT-3,816,657	c 32	N74-26654 *	US-PATENT-3,857,045	c 33	N75-14957 *
US-PATENT-3,789,654	c 25	N74-18551 *	US-PATENT-3,816,785	c 73	N74-26767 *	US-PATENT-3,859,119	c 36	N75-15029 *
US-PATENT-3,789,920	c 34	N74-18552 *	US-PATENT-3,817,082	c 34	N74-27730 *	US-PATENT-3,859,714	c 37	N75-15992 *
US-PATENT-3,789,947	c 37	N74-18125 *	US-PATENT-3,817,084	c 31	N74-27900 *	US-PATENT-3,859,714	c 24	N79-25143 *

REPORT NUMBER INDEX

US-PATENT-3,972,727

US-PATENT-3,859,736	c 09	N75-15662 *	US-PATENT-3,898,578	c 33	N75-30428 *	US-PATENT-3,937,055	c 37	N76-18454 *
US-PATENT-3,859,840	c 35	N75-15932 *	US-PATENT-3,898,730	c 24	N75-30260 *	US-PATENT-3,937,212	c 33	N76-19338 *
US-PATENT-3,859,845	c 35	N75-15931 *	US-PATENT-3,898,882	c 35	N75-30503 *	US-PATENT-3,937,215	c 52	N76-19785 *
US-PATENT-3,860,342	c 35	N75-16783 *	US-PATENT-3,899,224	c 37	N75-30562 *	US-PATENT-3,937,387	c 37	N76-18455 *
US-PATENT-3,860,393	c 25	N76-18245 *	US-PATENT-3,899,252	c 35	N75-30502 *	US-PATENT-3,937,533	c 37	N76-18459 *
US-PATENT-3,860,858	c 33	N75-15874 *	US-PATENT-3,899,517	c 23	N75-30256 *	US-PATENT-3,937,555	c 35	N76-18402 *
US-PATENT-3,860,921	c 32	N75-15854 *	US-PATENT-3,899,680	c 73	N75-30876 *	US-PATENT-3,937,661	c 37	N76-18456 *
US-PATENT-3,860,946	c 33	N79-11314 *	US-PATENT-3,899,696	c 36	N75-30524 *	US-PATENT-3,937,945	c 74	N76-18913 *
US-PATENT-3,863,881	c 37	N75-18573 *	US-PATENT-3,899,745	c 33	N75-30429 *	US-PATENT-3,938,035	c 33	N76-19339 *
US-PATENT-3,864,060	c 35	N75-19611 *	US-PATENT-3,900,705	c 33	N75-30431 *	US-PATENT-3,938,037	c 26	N76-18257 *
US-PATENT-3,864,239	c 37	N75-19684 *	US-PATENT-3,900,741	c 35	N75-30504 *	US-PATENT-3,938,162	c 32	N76-18295 *
US-PATENT-3,864,542	c 37	N75-19683 *	US-PATENT-3,900,847	c 03	N75-30132 *	US-PATENT-3,938,182	c 33	N76-18353 *
US-PATENT-3,864,797	c 20	N75-18310 *	US-PATENT-3,902,143	c 33	N75-30430 *	US-PATENT-3,938,188	c 33	N76-18345 *
US-PATENT-3,864,953	c 35	N75-19615 *	US-PATENT-3,903,699	c 44	N75-32581 *	US-PATENT-3,938,367	c 35	N76-18401 *
US-PATENT-3,864,960	c 35	N75-19612 *	US-PATENT-3,905,356	c 33	N75-31329 *	US-PATENT-3,938,373	c 35	N76-18400 *
US-PATENT-3,865,442	c 37	N75-18574 *	US-PATENT-3,905,660	c 37	N75-31446 *	US-PATENT-3,938,742	c 07	N76-18117 *
US-PATENT-3,865,975	c 36	N75-19652 *	US-PATENT-3,906,231	c 33	N75-31332 *	US-PATENT-3,938,892	c 74	N76-19935 *
US-PATENT-3,866,022	c 33	N75-19519 *	US-PATENT-3,906,296	c 33	N75-31331 *	US-PATENT-3,938,956	c 35	N76-18403 *
US-PATENT-3,866,114	c 33	N75-18477 *	US-PATENT-3,906,374	c 33	N75-31330 *	US-PATENT-3,939,048	c 37	N76-18458 *
US-PATENT-3,866,128	c 33	N75-19515 *	US-PATENT-3,906,393	c 36	N75-31427 *	US-PATENT-3,939,439	c 36	N76-18428 *
US-PATENT-3,866,210	c 33	N75-19517 *	US-PATENT-3,906,397	c 36	N75-31426 *	US-PATENT-3,940,097	c 34	N76-18364 *
US-PATENT-3,866,233	c 33	N75-19516 *	US-PATENT-3,906,398	c 36	N75-32441 *	US-PATENT-3,940,621	c 34	N76-18374 *
US-PATENT-3,866,863	c 18	N75-19329 *	US-PATENT-3,906,769	c 24	N75-33181 *	US-PATENT-3,941,355	c 37	N76-19436 *
US-PATENT-3,867,677	c 33	N75-19524 *	US-PATENT-3,906,788	c 35	N75-33369 *	US-PATENT-3,942,398	c 37	N76-20480 *
US-PATENT-3,868,591	c 36	N75-19655 *	US-PATENT-3,906,913	c 37	N76-18457 *	US-PATENT-3,943,368	c 74	N76-20958 *
US-PATENT-3,868,830	c 77	N75-20139 *	US-PATENT-3,906,954	c 52	N75-33640 *	US-PATENT-3,943,442	c 76	N76-20994 *
US-PATENT-3,868,856	c 35	N75-19614 *	US-PATENT-3,907,312	c 37	N75-33395 *	US-PATENT-3,943,763	c 04	N76-20114 *
US-PATENT-3,869,151	c 37	N75-19686 *	US-PATENT-3,907,646	c 35	N75-33368 *	US-PATENT-3,944,485	c 25	N81-19244 *
US-PATENT-3,869,160	c 37	N75-19685 *	US-PATENT-3,907,686	c 34	N75-33342 *	US-PATENT-3,945,801	c 45	N76-21742 *
US-PATENT-3,869,210	c 36	N75-19653 *	US-PATENT-3,908,118	c 38	N78-17395 *	US-PATENT-3,945,879	c 37	N76-21554 *
US-PATENT-3,869,212	c 35	N75-19613 *	US-PATENT-3,909,602	c 38	N78-17396 *	US-PATENT-3,947,281	c 27	N82-29455 *
US-PATENT-3,869,597	c 77	N75-20140 *	US-PATENT-3,910,035	c 20	N76-14190 *	US-PATENT-3,947,933	c 20	N76-21276 *
US-PATENT-3,869,615	c 35	N75-19616 *	US-PATENT-3,910,039	c 20	N76-14191 *	US-PATENT-3,948,102	c 33	N76-21390 *
US-PATENT-3,869,624	c 33	N75-18479 *	US-PATENT-3,910,257	c 52	N76-14757 *	US-PATENT-3,948,470	c 20	N76-21275 *
US-PATENT-3,869,659	c 33	N75-19522 *	US-PATENT-3,910,307	c 37	N76-14463 *	US-PATENT-3,949,206	c 32	N76-21366 *
US-PATENT-3,869,667	c 33	N75-19521 *	US-PATENT-3,910,533	c 18	N76-14186 *	US-PATENT-3,949,400	c 17	N76-21250 *
US-PATENT-3,869,676	c 33	N75-19520 *	US-PATENT-3,910,814	c 24	N76-14204 *	US-PATENT-3,949,404	c 32	N76-21365 *
US-PATENT-3,869,680	c 36	N75-19654 *	US-PATENT-3,911,260	c 35	N76-14431 *	US-PATENT-3,950,729	c 60	N76-21914 *
US-PATENT-3,869,779	c 26	N75-19408 *	US-PATENT-3,911,330	c 33	N76-14373 *	US-PATENT-3,951,129	c 44	N76-22657 *
US-PATENT-3,872,395	c 33	N75-19518 *	US-PATENT-3,912,540	c 44	N76-14600 *	US-PATENT-3,952,083	c 27	N76-22376 *
US-PATENT-3,874,240	c 35	N75-25122 *	US-PATENT-3,912,541	c 44	N76-14601 *	US-PATENT-3,952,590	c 09	N76-23273 *
US-PATENT-3,874,635	c 37	N75-25185 *	US-PATENT-3,912,999	c 44	N76-18643 *	US-PATENT-3,952,971	c 02	N76-22154 *
US-PATENT-3,874,677	c 37	N75-21631 *	US-PATENT-3,914,950	c 31	N76-14284 *	US-PATENT-3,952,976	c 37	N76-22540 *
US-PATENT-3,875,332	c 32	N75-21486 *	US-PATENT-3,914,969	c 37	N76-14461 *	US-PATENT-3,952,980	c 19	N76-22284 *
US-PATENT-3,875,394	c 33	N75-26243 *	US-PATENT-3,914,991	c 35	N76-14430 *	US-PATENT-3,952,998	c 20	N76-22296 *
US-PATENT-3,875,404	c 35	N75-23910 *	US-PATENT-3,914,997	c 35	N76-14429 *	US-PATENT-3,953,038	c 37	N76-22541 *
US-PATENT-3,875,435	c 20	N75-24837 *	US-PATENT-3,915,012	c 54	N76-14804 *	US-PATENT-3,953,343	c 24	N76-22309 *
US-PATENT-3,875,500	c 35	N75-21582 *	US-PATENT-3,915,148	c 44	N76-14602 *	US-PATENT-3,953,646	c 27	N76-23277 *
US-PATENT-3,875,584	c 32	N75-21485 *	US-PATENT-3,915,416	c 15	N76-14158 *	US-PATENT-3,953,674	c 17	N76-22245 *
US-PATENT-3,877,833	c 37	N75-25186 *	US-PATENT-3,915,482	c 37	N76-14460 *	US-PATENT-3,953,734	c 25	N76-22323 *
US-PATENT-3,878,464	c 32	N75-24981 *	US-PATENT-3,915,572	c 36	N76-14447 *	US-PATENT-3,953,792	c 35	N76-22509 *
US-PATENT-3,881,132	c 33	N77-21315 *	US-PATENT-3,916,060	c 27	N76-15310 *	US-PATENT-3,955,034	c 27	N76-23426 *
US-PATENT-3,882,417	c 36	N78-17366 *	US-PATENT-3,916,084	c 33	N76-14371 *	US-PATENT-3,955,941	c 44	N76-29700 *
US-PATENT-3,882,530	c 76	N75-25730 *	US-PATENT-3,916,187	c 35	N76-15431 *	US-PATENT-3,956,032	c 76	N76-25049 *
US-PATENT-3,882,634	c 51	N75-25503 *	US-PATENT-3,916,316	c 32	N76-14321 *	US-PATENT-3,956,050	c 37	N76-24575 *
US-PATENT-3,882,719	c 14	N75-24794 *	US-PATENT-3,916,380	c 60	N76-14818 *	US-PATENT-3,956,233	c 27	N76-24405 *
US-PATENT-3,882,732	c 12	N75-24774 *	US-PATENT-3,916,761	c 75	N76-14931 *	US-PATENT-3,956,833	c 09	N76-24280 *
US-PATENT-3,882,846	c 05	N75-24716 *	US-PATENT-3,919,014	c 24	N76-14203 *	US-PATENT-3,956,919	c 35	N76-24523 *
US-PATENT-3,883,095	c 07	N75-24736 *	US-PATENT-3,919,710	c 33	N76-14372 *	US-PATENT-3,956,932	c 35	N76-24524 *
US-PATENT-3,883,215	c 35	N75-25124 *	US-PATENT-3,920,339	c 27	N76-14264 *	US-PATENT-3,957,030	c 44	N76-23675 *
US-PATENT-3,883,436	c 74	N75-25706 *	US-PATENT-3,920,413	c 44	N76-14595 *	US-PATENT-3,957,037	c 35	N76-24525 *
US-PATENT-3,883,689	c 35	N75-25123 *	US-PATENT-3,920,416	c 44	N76-18642 *	US-PATENT-3,957,044	c 54	N76-24900 *
US-PATENT-3,883,785	c 09	N75-24758 *	US-PATENT-3,922,930	c 37	N76-15457 *	US-PATENT-3,957,104	c 37	N76-23570 *
US-PATENT-3,883,812	c 33	N75-25041 *	US-PATENT-3,923,166	c 37	N76-15460 *	US-PATENT-3,957,675	c 24	N76-24363 *
US-PATENT-3,883,817	c 33	N75-25040 *	US-PATENT-3,924,068	c 32	N76-16249 *	US-PATENT-3,958,188	c 36	N76-24553 *
US-PATENT-3,883,872	c 32	N75-24982 *	US-PATENT-3,924,137	c 72	N76-15860 *	US-PATENT-3,958,238	c 60	N76-23850 *
US-PATENT-3,884,432	c 05	N75-25914 *	US-PATENT-3,924,164	c 33	N76-15373 *	US-PATENT-3,958,553	c 44	N76-24696 *
US-PATENT-3,884,765	c 35	N75-27330 *	US-PATENT-3,924,176	c 35	N76-16390 *	US-PATENT-3,961,997	c 44	N76-28635 *
US-PATENT-3,887,233	c 05	N75-25915 *	US-PATENT-3,924,183	c 33	N76-16331 *	US-PATENT-3,964,306	c 34	N76-27517 *
US-PATENT-3,887,345	c 35	N75-26334 *	US-PATENT-3,924,200	c 35	N76-15436 *	US-PATENT-3,964,319	c 07	N76-27232 *
US-PATENT-3,887,365	c 37	N75-26371 *	US-PATENT-3,924,237	c 32	N76-15330 *	US-PATENT-3,964,813	c 37	N76-27567 *
US-PATENT-3,888,362	c 54	N75-27758 *	US-PATENT-3,924,239	c 35	N76-15435 *	US-PATENT-3,964,902	c 34	N76-27515 *
US-PATENT-3,888,410	c 34	N75-26282 *	US-PATENT-3,924,267	c 35	N76-16391 *	US-PATENT-3,964,928	c 44	N76-27664 *
US-PATENT-3,888,561	c 35	N75-27328 *	US-PATENT-3,924,444	c 35	N76-15432 *	US-PATENT-3,965,096	c 27	N76-32315 *
US-PATENT-3,888,705	c 25	N75-26043 *	US-PATENT-3,925,104	c 35	N76-15434 *	US-PATENT-3,965,354	c 33	N76-27473 *
US-PATENT-3,889,064	c 32	N75-26195 *	US-PATENT-3,925,312	c 23	N76-15268 *	US-PATENT-3,965,475	c 33	N76-27472 *
US-PATENT-3,889,122	c 37	N75-26372 *	US-PATENT-3,926,482	c 37	N76-15461 *	US-PATENT-3,966,499	c 44	N76-31666 *
US-PATENT-3,889,155	c 33	N75-26244 *	US-PATENT-3,926,567	c 27	N76-15311 *	US-PATENT-3,966,547	c 25	N76-27383 *
US-PATENT-3,889,182	c 33	N75-26245 *	US-PATENT-3,927,227	c 12	N76-15189 *	US-PATENT-3,967,091	c 37	N76-27568 *
US-PATENT-3,889,185	c 33	N75-26246 *	US-PATENT-3,927,324	c 35	N76-15433 *	US-PATENT-3,971,230	c 37	N76-29590 *
US-PATENT-3,889,264	c 32	N75-26194 *	US-PATENT-3,927,408	c 32	N76-15329 *	US-PATENT-3,971,256	c 91	N76-30131 *
US-PATENT-3,891,311	c 54	N75-27759 *	US-PATENT-3,928,708	c 27	N76-16230 *	US-PATENT-3,971,362	c 52	N76-29894 *
US-PATENT-3,891,452	c 27	N75-27160 *	US-PATENT-3,929,119	c 75	N76-17951 *	US-PATENT-3,971,363	c 52	N76-29895 *
US-PATENT-3,891,533	c 33	N75-27252 *	US-PATENT-3,929,305	c 34	N76-17317 *	US-PATENT-3,971,364	c 52	N76-29896 *
US-PATENT-3,891,848	c 45	N75-27585 *	US-PATENT-3,929,306	c 18	N76-17185 *	US-PATENT-3,971,535	c 05	N76-29217 *
US-PATENT-3,891,851	c 35	N75-27331 *	US-PATENT-3,929,364	c 35	N76-16392 *	US-PATENT-3,971,602	c 37	N76-29588 *
US-PATENT-3,893,449	c 54	N75-27760 *	US-PATENT-3,930,628	c 02	N76-16014 *	US-PATENT-3,971,697	c 25	N76-29379 *
US-PATENT-3,893,458	c 54	N75-27761 *	US-PATENT-3,930,735	c 66	N76-19888 *	US-PATENT-3,971,703	c 51	N76-29891 *
US-PATENT-3,893,573	c 18	N75-27041 *	US-PATENT-3,931,132	c 27	N76-16228 *	US-PATENT-3,971,847	c 44	N76-29704 *
US-PATENT-3,894,289	c 36	N75-27364 *	US-PATENT-3,931,447	c 27	N76-16229 *	US-PATENT-3,971,915	c 35	N76-29552 *
US-PATENT-3,894,677	c 24	N75-28135 *	US-PATENT-3,931,456	c 33	N76-16332 *	US-PATENT-3,971,930	c 74	N76-30053 *
US-PATENT-3,894,887	c 44	N76-18641 *	US-PATENT-3,931,462	c 45	N76-17656 *	US-PATENT-3,971,940	c 35	N76-29551 *
US-PATENT-3,895,521	c 35	N75-29381 *	US-PATENT-3,931,516	c 35	N76-16393 *	US-PATENT-3,972,008	c 36	N76-29575 *
US-PATENT-3,895,912	c 35	N75-29380 *	US-PATENT-3,931,532	c 44	N76-16612 *	US-PATENT-3,972,038	c 17	N76-29347 *
US-PATENT-3,896,758	c 35	N75-33367 *	US-PATENT-3,932,262	c 25	N79-10163 *	US-PATENT-3,972,651	c 44	N76-29701 *
US-PATENT-3,896,955	c 37	N77-22480 *	US-PATENT-3,936,927	c 37	N76-19437 *	US-PATENT-3,972,727	c 44	N76-29699 *

US-PATENT-3,976,997	c 62	N76-31946 *	US-PATENT-4,014,745	c 51	N77-22794 *	US-PATENT-4,051,834	c 44	N78-10554 *
US-PATENT-3,977,147	c 39	N76-31562 *	US-PATENT-4,014,798	c 25	N81-17187 *	US-PATENT-4,051,877	c 35	N78-10428 *
US-PATENT-3,977,197	c 44	N76-31667 *	US-PATENT-4,017,959	c 37	N77-23482 *	US-PATENT-4,052,144	c 25	N78-10224 *
US-PATENT-3,977,231	c 35	N76-31489 *	US-PATENT-4,018,080	c 35	N77-22450 *	US-PATENT-4,052,181	c 71	N78-10837 *
US-PATENT-3,977,771	c 74	N76-31998 *	US-PATENT-4,018,085	c 35	N77-22449 *	US-PATENT-4,052,302	c 25	N78-10225 *
US-PATENT-3,977,787	c 35	N76-31490 *	US-PATENT-4,018,092	c 37	N77-22482 *	US-PATENT-4,052,523	c 24	N78-10214 *
US-PATENT-3,977,831	c 45	N76-31714 *	US-PATENT-4,018,409	c 37	N77-23483 *	US-PATENT-4,052,614	c 35	N78-10429 *
US-PATENT-3,978,187	c 37	N76-31524 *	US-PATENT-4,018,423	c 54	N77-21844 *	US-PATENT-4,052,648	c 33	N78-10376 *
US-PATENT-3,978,287	c 32	N76-31372 *	US-PATENT-4,018,532	c 74	N77-22951 *	US-PATENT-4,052,659	c 33	N78-10377 *
US-PATENT-3,978,360	c 33	N76-31409 *	US-PATENT-4,018,533	c 74	N77-22950 *	US-PATENT-4,052,666	c 43	N78-10529 *
US-PATENT-3,978,364	c 31	N76-31365 *	US-PATENT-4,018,649	c 51	N77-25769 *	US-PATENT-4,052,705	c 60	N78-10709 *
US-PATENT-3,978,410	c 03	N76-32140 *	US-PATENT-4,018,971	c 44	N77-22606 *	US-PATENT-4,053,229	c 74	N78-13874 *
US-PATENT-3,978,417	c 36	N76-31512 *	US-PATENT-4,019,179	c 32	N77-21267 *	US-PATENT-4,053,231	c 35	N78-18391 *
US-PATENT-3,978,490	c 33	N76-32457 *	US-PATENT-4,019,868	c 44	N77-22607 *	US-PATENT-4,053,918	c 44	N78-13526 *
US-PATENT-3,982,910	c 44	N77-10636 *	US-PATENT-4,020,632	c 07	N77-23106 *	US-PATENT-4,055,004	c 09	N78-18083 *
US-PATENT-3,983,695	c 20	N77-10148 *	US-PATENT-4,023,266	c 33	N77-26385 *	US-PATENT-4,055,041	c 07	N78-18066 *
US-PATENT-3,983,714	c 31	N77-10229 *	US-PATENT-4,025,327	c 35	N77-24455 *	US-PATENT-4,055,072	c 35	N78-19465 *
US-PATENT-3,983,749	c 09	N77-10071 *	US-PATENT-4,025,783	c 74	N77-26942 *	US-PATENT-4,055,089	c 35	N78-18390 *
US-PATENT-3,983,753	c 52	N77-10780 *	US-PATENT-4,025,866	c 33	N77-24375 *	US-PATENT-4,055,147	c 35	N78-19466 *
US-PATENT-3,983,780	c 28	N77-10213 *	US-PATENT-4,025,875	c 36	N77-25499 *	US-PATENT-4,055,416	c 26	N78-18182 *
US-PATENT-3,983,933	c 34	N77-10463 *	US-PATENT-4,025,876	c 71	N77-26919 *	US-PATENT-4,055,447	c 26	N78-18183 *
US-PATENT-3,984,070	c 02	N77-10001 *	US-PATENT-4,025,891	c 35	N77-24454 *	US-PATENT-4,055,686	c 37	N78-13436 *
US-PATENT-3,984,072	c 15	N77-10113 *	US-PATENT-4,025,950	c 32	N77-24328 *	US-PATENT-4,055,705	c 34	N78-18355 *
US-PATENT-3,984,256	c 44	N77-10635 *	US-PATENT-4,025,964	c 52	N77-25772 *	US-PATENT-4,055,707	c 44	N78-19599 *
US-PATENT-3,984,634	c 32	N77-10392 *	US-PATENT-4,026,527	c 34	N77-24423 *	US-PATENT-4,055,764	c 35	N78-13400 *
US-PATENT-3,984,671	c 43	N77-10584 *	US-PATENT-4,026,655	c 36	N77-25501 *	US-PATENT-4,055,777	c 33	N78-18308 *
US-PATENT-3,984,681	c 35	N77-10492 *	US-PATENT-4,027,212	c 33	N77-26386 *	US-PATENT-4,055,810	c 36	N78-18410 *
US-PATENT-3,984,685	c 47	N77-10753 *	US-PATENT-4,027,265	c 32	N77-24331 *	US-PATENT-4,055,847	c 33	N78-13320 *
US-PATENT-3,984,686	c 35	N77-10493 *	US-PATENT-4,027,273	c 36	N77-25502 *	US-PATENT-4,061,029	c 35	N78-14364 *
US-PATENT-3,984,730	c 33	N77-10429 *	US-PATENT-4,027,494	c 35	N78-12390 *	US-PATENT-4,061,041	c 71	N78-14867 *
US-PATENT-3,984,799	c 33	N77-10428 *	US-PATENT-4,027,524	c 09	N77-27131 *	US-PATENT-4,061,146	c 52	N78-14773 *
US-PATENT-3,985,454	c 74	N77-10899 *	US-PATENT-4,028,939	c 34	N77-27345 *	US-PATENT-4,061,190	c 43	N78-14452 *
US-PATENT-3,987,630	c 37	N77-12402 *	US-PATENT-4,029,470	c 51	N77-27677 *	US-PATENT-4,061,427	c 36	N78-14380 *
US-PATENT-3,988,561	c 37	N77-11397 *	US-PATENT-4,029,500	c 24	N77-27187 *	US-PATENT-4,061,561	c 25	N78-14104 *
US-PATENT-3,988,677	c 32	N77-12240 *	US-PATENT-4,029,838	c 24	N77-27188 *	US-PATENT-4,061,570	c 54	N78-14784 *
US-PATENT-3,988,716	c 60	N77-12721 *	US-PATENT-4,030,047	c 35	N77-27366 *	US-PATENT-4,061,577	c 74	N78-14889 *
US-PATENT-3,988,729	c 32	N77-12239 *	US-PATENT-4,030,348	c 39	N78-10493 *	US-PATENT-4,061,579	c 24	N78-14096 *
US-PATENT-3,988,933	c 35	N77-19385 *	US-PATENT-4,031,389	c 36	N77-26477 *	US-PATENT-4,061,812	c 24	N78-15180 *
US-PATENT-3,989,136	c 37	N77-19457 *	US-PATENT-4,032,089	c 24	N77-28225 *	US-PATENT-4,061,834	c 27	N78-14164 *
US-PATENT-3,989,206	c 09	N77-19076 *	US-PATENT-4,032,089	c 27	N81-14077 *	US-PATENT-4,061,856	c 27	N78-15276 *
US-PATENT-3,989,541	c 44	N77-19571 *	US-PATENT-4,033,119	c 07	N77-28118 *	US-PATENT-4,061,955	c 44	N78-14625 *
US-PATENT-3,989,602	c 24	N77-19171 *	US-PATENT-4,033,133	c 28	N80-10374 *	US-PATENT-4,061,974	c 32	N78-15323 *
US-PATENT-3,990,049	c 60	N77-19760 *	US-PATENT-4,033,182	c 39	N77-28511 *	US-PATENT-4,062,227	c 39	N78-15512 *
US-PATENT-3,990,860	c 27	N77-13217 *	US-PATENT-4,033,286	c 25	N79-28253 *	US-PATENT-4,062,245	c 37	N78-16369 *
US-PATENT-3,990,987	c 37	N77-13418 *	US-PATENT-4,033,316	c 33	N77-28385 *	US-PATENT-4,062,347	c 44	N78-15560 *
US-PATENT-3,994,128	c 07	N77-14025 *	US-PATENT-4,033,334	c 52	N77-28717 *	US-PATENT-4,062,650	c 25	N78-15210 *
US-PATENT-3,995,324	c 52	N77-14735 *	US-PATENT-4,033,349	c 52	N77-28716 *	US-PATENT-4,062,996	c 74	N78-15879 *
US-PATENT-3,995,476	c 35	N77-14407 *	US-PATENT-4,033,479	c 57	N77-28487 *	US-PATENT-4,063,088	c 74	N78-15880 *
US-PATENT-3,995,522	c 37	N77-14478 *	US-PATENT-4,033,503	c 26	N77-29260 *	US-PATENT-4,063,092	c 35	N78-15461 *
US-PATENT-3,995,621	c 52	N77-14736 *	US-PATENT-4,033,504	c 26	N77-28265 *	US-PATENT-4,063,282	c 39	N78-16387 *
US-PATENT-3,995,644	c 52	N77-14738 *	US-PATENT-4,033,705	c 07	N77-27116 *	US-PATENT-4,063,814	c 74	N78-17866 *
US-PATENT-3,995,789	c 37	N77-14479 *	US-PATENT-4,033,882	c 32	N77-28346 *	US-PATENT-4,063,981	c 24	N78-17149 *
US-PATENT-3,995,877	c 37	N77-14477 *	US-PATENT-4,035,037	c 37	N77-28486 *	US-PATENT-4,064,566	c 27	N78-17215 *
US-PATENT-3,995,960	c 35	N77-14411 *	US-PATENT-4,035,062	c 74	N77-28932 *	US-PATENT-4,064,642	c 54	N78-17675 *
US-PATENT-3,996,064	c 44	N77-14581 *	US-PATENT-4,035,065	c 74	N77-28933 *	US-PATENT-4,064,692	c 37	N78-17384 *
US-PATENT-3,996,067	c 44	N77-14580 *	US-PATENT-4,038,705	c 54	N77-30749 *	US-PATENT-4,065,053	c 44	N78-17460 *
US-PATENT-3,996,070	c 35	N77-14409 *	US-PATENT-4,039,489	c 27	N77-31308 *	US-PATENT-4,065,202	c 35	N78-17357 *
US-PATENT-3,996,455	c 60	N77-14751 *	US-PATENT-4,039,946	c 35	N77-30436 *	US-PATENT-4,065,340	c 24	N78-17150 *
US-PATENT-3,996,462	c 33	N77-14335 *	US-PATENT-4,039,000	c 34	N77-30399 *	US-PATENT-4,065,345	c 27	N78-17205 *
US-PATENT-3,996,464	c 35	N77-14406 *	US-PATENT-4,039,347	c 27	N77-30237 *	US-PATENT-4,066,039	c 37	N78-17383 *
US-PATENT-3,996,468	c 35	N77-14408 *	US-PATENT-4,039,754	c 32	N77-30309 *	US-PATENT-4,067,015	c 17	N78-17140 *
US-PATENT-3,996,471	c 52	N77-14737 *	US-PATENT-4,039,925	c 33	N77-30365 *	US-PATENT-4,067,043	c 74	N78-17865 *
US-PATENT-3,996,506	c 33	N77-14333 *	US-PATENT-4,040,041	c 33	N77-31404 *	US-PATENT-4,067,653	c 74	N78-17867 *
US-PATENT-3,996,532	c 32	N77-14292 *	US-PATENT-4,040,750	c 35	N77-31465 *	US-PATENT-4,067,742	c 27	N78-17206 *
US-PATENT-3,997,848	c 33	N77-14334 *	US-PATENT-4,040,867	c 44	N77-31601 *	US-PATENT-4,068,469	c 07	N78-17055 *
US-PATENT-3,999,886	c 05	N77-17029 *	US-PATENT-4,040,930	c 37	N80-14397 *	US-PATENT-4,068,470	c 07	N78-17056 *
US-PATENT-4,049,930	c 33	N78-10375 *	US-PATENT-4,041,233	c 27	N77-30236 *	US-PATENT-4,068,495	c 31	N78-17237 *
US-PATENT-4, 356,157	c 25	N83-33977 *	US-PATENT-4,041,391	c 32	N77-30308 *	US-PATENT-4,068,763	c 54	N78-17676 *
US-PATENT-4, 359,503	c 24	N83-33950 *	US-PATENT-4,041,697	c 37	N78-10467 *	US-PATENT-4,069,028	c 34	N78-17335 *
US-PATENT-4,000,682	c 20	N77-17143 *	US-PATENT-4,041,910	c 37	N77-31497 *	US-PATENT-4,069,212	c 27	N78-17213 *
US-PATENT-4,000,929	c 37	N77-17464 *	US-PATENT-4,042,926	c 32	N77-31350 *	US-PATENT-4,069,478	c 60	N78-17691 *
US-PATENT-4,001,552	c 38	N77-17495 *	US-PATENT-4,043,668	c 35	N84-33766 *	US-PATENT-4,069,661	c 07	N78-18067 *
US-PATENT-4,001,602	c 33	N77-17354 *	US-PATENT-4,043,674	c 36	N77-32478 *	US-PATENT-4,070,574	c 74	N78-18905 *
US-PATENT-4,003,004	c 33	N77-17351 *	US-PATENT-4,044,753	c 44	N77-32582 *	US-PATENT-4,072,532	c 27	N78-19302 *
US-PATENT-4,003,084	c 35	N77-17426 *	US-PATENT-4,044,821	c 44	N77-32581 *	US-PATENT-4,075,057	c 73	N78-19920 *
US-PATENT-4,003,257	c 23	N77-17161 *	US-PATENT-4,045,063	c 37	N77-32499 *	US-PATENT-4,077,231	c 31	N78-25256 *
US-PATENT-4,004,292	c 74	N77-18893 *	US-PATENT-4,045,149	c 07	N77-32148 *	US-PATENT-4,077,678	c 44	N78-24608 *
US-PATENT-4,005,574	c 07	N77-17059 *	US-PATENT-4,045,247	c 35	N77-32454 *	US-PATENT-4,077,788	c 28	N78-24365 *
US-PATENT-4,006,631	c 04	N77-19056 *	US-PATENT-4,045,255	c 26	N77-32279 *	US-PATENT-4,077,788	c 28	N81-14103 *
US-PATENT-4,006,899	c 24	N77-19170 *	US-PATENT-4,045,315	c 44	N77-32580 *	US-PATENT-4,077,813	c 26	N78-24333 *
US-PATENT-4,007,430	c 36	N77-19416 *	US-PATENT-4,045,359	c 25	N77-32255 *	US-PATENT-4,077,818	c 44	N78-24609 *
US-PATENT-4,007,434	c 32	N77-18307 *	US-PATENT-4,045,728	c 35	N77-32455 *	US-PATENT-4,077,921	c 24	N78-24290 *
US-PATENT-4,007,601	c 34	N77-19353 *	US-PATENT-4,045,792	c 60	N77-32731 *	US-PATENT-4,078,110	c 34	N78-25350 *
US-PATENT-4,007,623	c 35	N77-18417 *	US-PATENT-4,045,795	c 32	N77-32342 *	US-PATENT-4,078,175	c 76	N78-24950 *
US-PATENT-4,007,891	c 07	N77-18154 *	US-PATENT-4,046,012	c 35	N77-32456 *	US-PATENT-4,078,290	c 37	N78-24544 *
US-PATENT-4,008,348	c 34	N77-18382 *	US-PATENT-4,046,190	c 54	N77-32413 *	US-PATENT-4,078,378	c 37	N78-24545 *
US-PATENT-4,008,407	c 73	N77-18891 *	US-PATENT-4,046,262	c 34	N77-32721 *	US-PATENT-4,079,268	c 32	N78-24391 *
US-PATENT-4,010,455	c 37	N77-19458 *	US-PATENT-4,046,434	c 37	N77-32500 *	US-PATENT-4,080,901	c 20	N78-24275 *
US-PATENT-4,010,455	c 37	N78-31426 *	US-PATENT-4,046,435	c 37	N77-32501 *	US-PATENT-4,081,250	c 44	N78-31527 *
US-PATENT-4,011,719	c 20	N77-20162 *	US-PATENT-4,046,462	c 44	N77-32583 *	US-PATENT-4,082,001	c 35	N78-24515 *
US-PATENT-4,011,756	c 35	N77-20400 *	US-PATENT-4,046,529	c 54	N77-32722 *	US-PATENT-4,082,569	c 44	N78-25527 *
US-PATENT-4,011,854	c 35	N77-20401 *	US-PATENT-4,046,560	c 26	N77-32280 *	US-PATENT-4,083,097	c 44	N78-25528 *
US-PATENT-4,012,018	c 35	N77-20399 *	US-PATENT-4,046,617	c 76	N77-32919 *	US-PATENT-4,083,181	c 07	N78-25089 *
US-PATENT-4,012,123	c 74	N77-20882 *	US-PATENT-4,046,619	c 27	N77-32308 *	US-PATENT-4,083,380	c 37	N78-25426 *
US-PATENT-4,012,237	c 26	N77-20201 *	US-PATENT-4,047,840	c 37	N78-10468 *	US-PATENT-4,083,520	c 15	N78-25119 *
US-PATENT-4,012,696	c 32	N77-20289 *	US-PATENT-4,051,558	c 52	N78-10686 *	US-PATENT-4,083,765	c 35	N78-25391 *

REPORT NUMBER INDEX

US-PATENT-4,184,327

US-PATENT-4,084,124	c 44	N78-25531 *	US-PATENT-4,111,068	c 37	N79-14382 *	US-PATENT-4,146,180	c 37	N79-22474 *
US-PATENT-4,084,132	c 33	N78-25319 *	US-PATENT-4,111,184	c 44	N79-14526 *	US-PATENT-4,146,367	c 25	N81-33246 *
US-PATENT-4,084,612	c 34	N78-25351 *	US-PATENT-4,111,718	c 35	N79-14346 *	US-PATENT-4,146,409	c 26	N79-22271 *
US-PATENT-4,084,825	c 07	N78-25090 *	US-PATENT-4,111,729	c 28	N79-14228 *	US-PATENT-4,148,031	c 32	N79-24210 *
US-PATENT-4,084,985	c 44	N78-25529 *	US-PATENT-4,111,775	c 76	N79-14906 *	US-PATENT-4,148,295	c 44	N79-23481 *
US-PATENT-4,085,004	c 73	N78-28913 *	US-PATENT-4,111,851	c 24	N79-14156 *	US-PATENT-4,148,375	c 46	N79-22679 *
US-PATENT-4,085,241	c 44	N78-25530 *	US-PATENT-4,112,357	c 33	N79-14305 *	US-PATENT-4,148,452	c 08	N79-23097 *
US-PATENT-4,085,332	c 25	N78-25148 *	US-PATENT-4,112,497	c 32	N79-14267 *	US-PATENT-4,148,962	c 24	N79-24062 *
US-PATENT-4,087,902	c 33	N78-27326 *	US-PATENT-4,112,875	c 44	N78-33526 *	US-PATENT-4,149,034	c 71	N79-23753 *
US-PATENT-4,087,962	c 34	N78-27357 *	US-PATENT-4,116,131	c 20	N78-32179 *	US-PATENT-4,149,233	c 33	N79-24257 *
US-PATENT-4,087,975	c 44	N78-32542 *	US-PATENT-4,117,669	c 07	N79-10057 *	US-PATENT-4,149,278	c 54	N79-24652 *
US-PATENT-4,088,018	c 37	N78-27424 *	US-PATENT-4,117,731	c 35	N79-10390 *	US-PATENT-4,149,423	c 32	N79-24203 *
US-PATENT-4,088,094	c 51	N78-27733 *	US-PATENT-4,117,749	c 37	N79-10419 *	US-PATENT-4,149,521	c 44	N79-24433 *
US-PATENT-4,088,270	c 07	N78-27121 *	US-PATENT-4,117,881	c 51	N79-10694 *	US-PATENT-4,149,665	c 44	N79-24431 *
US-PATENT-4,088,291	c 37	N78-27425 *	US-PATENT-4,118,014	c 37	N79-10420 *	US-PATENT-4,149,817	c 44	N79-24432 *
US-PATENT-4,088,312	c 37	N78-27423 *	US-PATENT-4,118,315	c 51	N79-10693 *	US-PATENT-4,149,938	c 25	N79-24073 *
US-PATENT-4,088,408	c 74	N78-27904 *	US-PATENT-4,118,427	c 27	N80-32514 *	US-PATENT-4,150,425	c 33	N79-24254 *
US-PATENT-4,088,532	c 25	N78-27226 *	US-PATENT-4,118,620	c 37	N79-10421 *	US-PATENT-4,151,086	c 34	N79-24285 *
US-PATENT-4,088,806	c 24	N78-27180 *	US-PATENT-4,118,665	c 33	N79-10338 *	US-PATENT-4,151,456	c 33	N79-23345 *
US-PATENT-4,088,926	c 75	N78-27913 *	US-PATENT-4,118,666	c 32	N79-10262 *	US-PATENT-4,151,612	c 54	N79-24651 *
US-PATENT-4,088,951	c 35	N78-28411 *	US-PATENT-4,118,671	c 33	N79-10339 *	US-PATENT-4,151,800	c 24	N79-25142 *
US-PATENT-4,088,954	c 35	N78-32397 *	US-PATENT-4,118,701	c 32	N79-10264 *	US-PATENT-4,152,194	c 76	N79-23798 *
US-PATENT-4,088,965	c 36	N78-27402 *	US-PATENT-4,119,581	c 27	N81-14076 *	US-PATENT-4,153,134	c 46	N79-23555 *
US-PATENT-4,088,999	c 44	N78-28594 *	US-PATENT-4,119,926	c 33	N79-11313 *	US-PATENT-4,153,476	c 44	N79-25482 *
US-PATENT-4,089,004	c 32	N80-29539 *	US-PATENT-4,119,964	c 32	N79-11265 *	US-PATENT-4,153,818	c 32	N79-23310 *
US-PATENT-4,089,209	c 35	N78-27384 *	US-PATENT-4,119,972	c 32	N79-11264 *	US-PATENT-4,154,084	c 43	N79-25443 *
US-PATENT-4,089,705	c 44	N78-27515 *	US-PATENT-4,119,996	c 33	N79-12321 *	US-PATENT-4,154,228	c 52	N79-27836 *
US-PATENT-4,090,213	c 44	N80-29835 *	US-PATENT-4,121,965	c 76	N79-11920 *	US-PATENT-4,154,230	c 52	N79-26771 *
US-PATENT-4,091,166	c 27	N78-31233 *	US-PATENT-4,121,995	c 25	N79-11152 *	US-PATENT-4,154,256	c 05	N79-24976 *
US-PATENT-4,091,329	c 33	N78-32339 *	US-PATENT-4,122,214	c 44	N79-11472 *	US-PATENT-4,154,501	c 33	N81-29342 *
US-PATENT-4,091,464	c 54	N78-31735 *	US-PATENT-4,122,334	c 74	N79-12890 *	US-PATENT-4,154,912	c 44	N79-25481 *
US-PATENT-4,091,464	c 54	N79-24651 *	US-PATENT-4,122,383	c 44	N79-12541 *	US-PATENT-4,155,475	c 24	N79-25143 *
US-PATENT-4,091,465	c 54	N78-31736 *	US-PATENT-4,122,454	c 32	N79-13214 *	US-PATENT-4,156,309	c 44	N79-25475 *
US-PATENT-4,091,613	c 44	N78-32539 *	US-PATENT-4,122,518	c 52	N79-12694 *	US-PATENT-4,156,548	c 35	N79-26372 *
US-PATENT-4,091,665	c 09	N78-31129 *	US-PATENT-4,122,712	c 34	N79-12359 *	US-PATENT-4,156,752	c 15	N79-26100 *
US-PATENT-4,091,798	c 44	N78-31526 *	US-PATENT-4,122,725	c 38	N79-14398 *	US-PATENT-4,156,971	c 43	N79-26439 *
US-PATENT-4,091,800	c 44	N78-31525 *	US-PATENT-4,122,816	c 37	N79-11405 *	US-PATENT-4,157,655	c 43	N80-14423 *
US-PATENT-4,092,188	c 28	N78-31255 *	US-PATENT-4,122,833	c 44	N79-11471 *	US-PATENT-4,157,718	c 52	N80-14684 *
US-PATENT-4,092,274	c 27	N78-31232 *	US-PATENT-4,122,931	c 18	N79-11108 *	US-PATENT-4,158,583	c 28	N79-28342 *
US-PATENT-4,092,466	c 27	N78-32256 *	US-PATENT-4,123,355	c 45	N79-12584 *	US-PATENT-4,158,742	c 12	N79-26075 *
US-PATENT-4,092,466	c 27	N80-10358 *	US-PATENT-4,124,180	c 05	N79-12061 *	US-PATENT-4,158,775	c 72	N80-14877 *
US-PATENT-4,092,606	c 33	N78-32338 *	US-PATENT-4,124,330	c 07	N79-14095 *	US-PATENT-4,158,895	c 52	N79-26772 *
US-PATENT-4,092,617	c 33	N78-32340 *	US-PATENT-4,124,732	c 27	N79-12221 *	US-PATENT-4,159,262	c 27	N79-28307 *
US-PATENT-4,092,633	c 54	N78-32720 *	US-PATENT-4,128,814	c 36	N79-14362 *	US-PATENT-4,159,366	c 44	N79-26474 *
US-PATENT-4,092,648	c 32	N78-31321 *	US-PATENT-4,129,357	c 74	N79-14891 *	US-PATENT-4,159,634	c 37	N79-28550 *
US-PATENT-4,092,712	c 33	N78-32341 *	US-PATENT-4,130,032	c 37	N79-14383 *	US-PATENT-4,160,254	c 33	N79-28416 *
US-PATENT-4,092,874	c 37	N78-31426 *	US-PATENT-4,130,112	c 52	N79-14751 *	US-PATENT-4,160,508	c 37	N79-28551 *
US-PATENT-4,093,156	c 05	N78-32086 *	US-PATENT-4,130,471	c 25	N79-14169 *	US-PATENT-4,160,601	c 35	N79-28527 *
US-PATENT-4,093,354	c 73	N78-32848 *	US-PATENT-4,130,490	c 33	N79-15245 *	US-PATENT-4,161,661	c 33	N79-28415 *
US-PATENT-4,093,382	c 38	N78-32447 *	US-PATENT-4,130,795	c 35	N79-14349 *	US-PATENT-4,161,731	c 31	N79-28370 *
US-PATENT-4,093,771	c 27	N78-32260 *	US-PATENT-4,131,336	c 44	N79-14529 *	US-PATENT-4,161,747	c 37	N79-28549 *
US-PATENT-4,093,917	c 35	N78-32396 *	US-PATENT-4,131,459	c 27	N79-14213 *	US-PATENT-4,162,169	c 24	N79-31347 *
US-PATENT-4,094,073	c 35	N78-32395 *	US-PATENT-4,131,486	c 44	N79-14528 *	US-PATENT-4,162,701	c 34	N79-31523 *
US-PATENT-4,094,758	c 26	N78-32229 *	US-PATENT-4,132,068	c 07	N79-14097 *	US-PATENT-4,162,928	c 44	N79-31753 *
US-PATENT-4,094,775	c 52	N80-14687 *	US-PATENT-4,132,069	c 07	N79-14096 *	US-PATENT-4,163,678	c 44	N79-31752 *
US-PATENT-4,094,862	c 27	N78-32261 *	US-PATENT-4,132,130	c 44	N79-14527 *	US-PATENT-4,164,079	c 09	N79-31228 *
US-PATENT-4,094,943	c 27	N78-32262 *	US-PATENT-4,132,375	c 08	N79-14108 *	US-PATENT-4,164,718	c 32	N80-14281 *
US-PATENT-4,095,593	c 54	N78-32721 *	US-PATENT-4,132,594	c 52	N79-14749 *	US-PATENT-4,165,460	c 43	N79-31706 *
US-PATENT-4,096,315	c 74	N78-32854 *	US-PATENT-4,132,599	c 52	N79-14750 *	US-PATENT-4,166,170	c 27	N79-33316 *
US-PATENT-4,097,194	c 07	N78-33101 *	US-PATENT-4,132,829	c 27	N79-14214 *	US-PATENT-4,166,170	c 27	N81-14078 *
US-PATENT-4,098,142	c 37	N79-10422 *	US-PATENT-4,132,940	c 35	N79-14348 *	US-PATENT-4,166,959	c 74	N79-34011 *
US-PATENT-4,099,799	c 37	N79-10418 *	US-PATENT-4,132,989	c 32	N79-14268 *	US-PATENT-4,167,111	c 46	N80-10709 *
US-PATENT-4,100,331	c 44	N79-10513 *	US-PATENT-4,133,697	c 44	N79-17314 *	US-PATENT-4,168,287	c 27	N80-10358 *
US-PATENT-4,100,487	c 33	N79-10337 *	US-PATENT-4,133,697	c 44	N80-14474 *	US-PATENT-4,168,483	c 39	N80-10507 *
US-PATENT-4,100,531	c 32	N79-10263 *	US-PATENT-4,133,941	c 44	N79-17313 *	US-PATENT-4,168,706	c 54	N80-10799 *
US-PATENT-4,101,195	c 89	N79-10969 *	US-PATENT-4,133,941	c 25	N82-21268 *	US-PATENT-4,168,718	c 20	N80-10278 *
US-PATENT-4,101,644	c 29	N79-10162 *	US-PATENT-4,134,447	c 31	N79-17029 *	US-PATENT-4,168,939	c 05	N80-14107 *
US-PATENT-4,101,780	c 35	N79-10389 *	US-PATENT-4,134,683	c 43	N79-17288 *	US-PATENT-4,169,129	c 37	N80-10494 *
US-PATENT-4,101,891	c 35	N79-10391 *	US-PATENT-4,134,744	c 35	N79-17192 *	US-PATENT-4,170,776	c 46	N80-14603 *
US-PATENT-4,101,961	c 52	N79-10724 *	US-PATENT-4,134,786	c 85	N79-17747 *	US-PATENT-4,170,987	c 52	N81-27783 *
US-PATENT-4,102,580	c 74	N79-11865 *	US-PATENT-4,135,019	c 24	N79-16915 *	US-PATENT-4,171,615	c 20	N80-14188 *
US-PATENT-4,103,550	c 31	N79-11246 *	US-PATENT-4,135,127	c 33	N79-17133 *	US-PATENT-4,171,645	c 35	N80-14371 *
US-PATENT-4,103,619	c 28	N79-11231 *	US-PATENT-4,135,290	c 44	N79-18444 *	US-PATENT-4,172,228	c 33	N80-14332 *
US-PATENT-4,103,712	c 37	N79-11402 *	US-PATENT-4,135,367	c 44	N79-18443 *	US-PATENT-4,172,786	c 45	N80-14579 *
US-PATENT-4,104,018	c 25	N79-11151 *	US-PATENT-4,135,817	c 35	N79-18296 *	US-PATENT-4,172,883	c 26	N80-14229 *
US-PATENT-4,104,084	c 44	N79-11467 *	US-PATENT-4,135,851	c 37	N79-18318 *	US-PATENT-4,173,001	c 36	N80-14384 *
US-PATENT-4,104,091	c 44	N79-11468 *	US-PATENT-4,135,851	c 37	N80-26658 *	US-PATENT-4,173,324	c 37	N80-14398 *
US-PATENT-4,104,134	c 44	N79-11469 *	US-PATENT-4,135,851	c 37	N82-19540 *	US-PATENT-4,173,397	c 44	N80-14473 *
US-PATENT-4,104,134	c 44	N80-16452 *	US-PATENT-4,136,211	c 24	N79-17916 *	US-PATENT-4,173,820	c 44	N80-14474 *
US-PATENT-4,104,873	c 37	N79-11403 *	US-PATENT-4,137,010	c 05	N79-17847 *	US-PATENT-4,175,249	c 44	N80-14472 *
US-PATENT-4,105,261	c 37	N79-11404 *	US-PATENT-4,137,365	c 27	N79-18052 *	US-PATENT-4,176,007	c 51	N80-16714 *
US-PATENT-4,105,517	c 44	N79-11470 *	US-PATENT-4,139,291	c 74	N79-20856 *	US-PATENT-4,176,360	c 18	N80-14183 *
US-PATENT-4,105,966	c 33	N79-11315 *	US-PATENT-4,139,806	c 71	N79-20827 *	US-PATENT-4,176,662	c 52	N80-16725 *
US-PATENT-4,106,218	c 74	N79-13855 *	US-PATENT-4,139,839	c 60	N79-20751 *	US-PATENT-4,176,950	c 36	N80-16321 *
US-PATENT-4,106,587	c 71	N79-14871 *	US-PATENT-4,139,862	c 32	N79-20297 *	US-PATENT-4,177,325	c 44	N80-16452 *
US-PATENT-4,106,687	c 37	N79-13364 *	US-PATENT-4,140,972	c 32	N79-20296 *	US-PATENT-4,177,333	c 25	N80-16118 *
US-PATENT-4,107,363	c 33	N79-12331 *	US-PATENT-4,141,219	c 34	N79-20335 *	US-PATENT-4,178,100	c 35	N80-18359 *
US-PATENT-4,107,627	c 72	N79-13826 *	US-PATENT-4,141,224	c 34	N79-20336 *	US-PATENT-4,180,648	c 27	N80-16158 *
US-PATENT-4,107,919	c 34	N79-13288 *	US-PATENT-4,141,259	c 37	N79-20377 *	US-PATENT-4,181,589	c 51	N80-16715 *
US-PATENT-4,108,241	c 34	N79-13289 *	US-PATENT-4,142,101	c 74	N79-20857 *	US-PATENT-4,182,158	c 35	N80-18358 *
US-PATENT-4,109,213	c 33	N79-22373 *	US-PATENT-4,142,119	c 33	N79-20314 *	US-PATENT-4,183,217	c 20	N80-18097 *
US-PATENT-4,109,644	c 52	N79-18580 *	US-PATENT-4,143,314	c 20	N79-20179 *	US-PATENT-4,184,072	c 44	N80-18552 *
US-PATENT-4,110,683	c 33	N79-18193 *	US-PATENT-4,145,058	c 37	N79-22475 *	US-PATENT-4,184,111	c 44	N80-18551 *
US-PATENT-4,110,703	c 36	N79-18307 *	US-PATENT-4,145,255	c 25	N79-22235 *	US-PATENT-4,184,149	c 06	N80-18036 *
US-PATENT-4,111,041	c 35	N79-14345 *	US-PATENT-4,145,524	c 27	N79-22300 *	US-PATENT-4,184,155	c 43	N80-18498 *
US-PATENT-4,111,058	c 35	N79-14347 *	US-PATENT-4,145,933	c 39	N79-22537 *	US-PATENT-4,184,327	c 07	N80-18039 *

US-PATENT-4,184,368	c 48	N80-18667 *	US-PATENT-4,217,633	c 44	N81-12542 *	US-PATENT-4,263,112	c 28	N81-24280 *
US-PATENT-4,184,472	c 76	N80-18951 *	US-PATENT-4,218,280	c 27	N80-32516 *	US-PATENT-4,264,310	c 54	N81-27806 *
US-PATENT-4,184,491	c 52	N80-18690 *	US-PATENT-4,218,633	c 72	N80-33186 *	US-PATENT-4,264,728	c 51	N81-28698 *
US-PATENT-4,184,609	c 37	N80-18393 *	US-PATENT-4,218,650	c 33	N80-32650 *	US-PATENT-4,264,802	c 35	N81-26431 *
US-PATENT-4,184,903	c 44	N80-18550 *	US-PATENT-4,218,682	c 32	N80-32604 *	US-PATENT-4,264,908	c 33	N81-26358 *
US-PATENT-4,185,164	c 33	N80-18286 *	US-PATENT-4,218,685	c 32	N81-14187 *	US-PATENT-4,264,940	c 33	N81-27397 *
US-PATENT-4,185,493	c 35	N80-18357 *	US-PATENT-4,218,892	c 35	N81-14287 *	US-PATENT-4,264,984	c 60	N81-27814 *
US-PATENT-4,186,347	c 32	N80-18253 *	US-PATENT-4,218,921	c 71	N81-15767 *	US-PATENT-4,265,416	c 14	N81-26161 *
US-PATENT-4,186,749	c 52	N80-18691 *	US-PATENT-4,218,941	c 37	N81-14319 *	US-PATENT-4,266,177	c 33	N81-27395 *
US-PATENT-4,187,394	c 32	N80-18252 *	US-PATENT-4,219,027	c 52	N81-14612 *	US-PATENT-4,266,743	c 08	N81-26152 *
US-PATENT-4,187,416	c 33	N80-18285 *	US-PATENT-4,219,084	c 31	N81-14137 *	US-PATENT-4,266,788	c 37	N81-26447 *
US-PATENT-4,187,470	c 36	N80-18372 *	US-PATENT-4,219,107	c 37	N81-15364 *	US-PATENT-4,267,594	c 33	N81-26359 *
US-PATENT-4,187,506	c 33	N80-18287 *	US-PATENT-4,219,171	c 37	N81-14320 *	US-PATENT-4,267,953	c 24	N81-26179 *
US-PATENT-4,188,368	c 31	N80-18231 *	US-PATENT-4,219,203	c 37	N81-15363 *	US-PATENT-4,267,992	c 37	N81-24443 *
US-PATENT-4,188,823	c 02	N80-20224 *	US-PATENT-4,219,926	c 44	N81-14389 *	US-PATENT-4,269,640	c 37	N82-24491 *
US-PATENT-4,189,234	c 74	N80-21138 *	US-PATENT-4,220,171	c 07	N81-14999 *	US-PATENT-4,269,787	c 27	N81-24256 *
US-PATENT-4,189,675	c 32	N80-20448 *	US-PATENT-4,221,005	c 32	N81-15179 *	US-PATENT-4,270,539	c 52	N81-28740 *
US-PATENT-4,189,914	c 07	N81-29129 *	US-PATENT-4,222,098	c 33	N81-14220 *	US-PATENT-4,270,984	c 44	N81-29524 *
US-PATENT-4,190,060	c 52	N81-29763 *	US-PATENT-4,225,102	c 02	N81-14968 *	US-PATENT-4,271,761	c 15	N82-24272 *
US-PATENT-4,190,626	c 24	N81-29163 *	US-PATENT-4,225,372	c 27	N81-14077 *	US-PATENT-4,272,046	c 08	N82-24205 *
US-PATENT-4,191,159	c 37	N80-29703 *	US-PATENT-4,226,475	c 43	N81-26509 *	US-PATENT-4,272,302	c 33	N81-26360 *
US-PATENT-4,191,505	c 44	N80-21828 *	US-PATENT-4,227,096	c 33	N81-17348 *	US-PATENT-4,272,470	c 23	N81-29160 *
US-PATENT-4,191,893	c 44	N80-29834 *	US-PATENT-4,228,422	c 33	N81-14221 *	US-PATENT-4,272,720	c 47	N82-24779 *
US-PATENT-4,192,290	c 44	N80-20810 *	US-PATENT-4,228,656	c 37	N81-14318 *	US-PATENT-4,273,304	c 05	N81-26114 *
US-PATENT-4,192,910	c 33	N80-20487 *	US-PATENT-4,229,182	c 28	N81-15119 *	US-PATENT-4,273,505	c 54	N81-26718 *
US-PATENT-4,192,910	c 44	N81-29524 *	US-PATENT-4,229,196	c 28	N81-14103 *	US-PATENT-4,273,918	c 27	N82-24338 *
US-PATENT-4,192,994	c 74	N80-21140 *	US-PATENT-4,229,473	c 24	N81-14000 *	US-PATENT-4,274,038	c 37	N81-33483 *
US-PATENT-4,193,388	c 44	N80-20808 *	US-PATENT-4,229,473	c 24	N81-33235 *	US-PATENT-4,274,285	c 35	N81-29407 *
US-PATENT-4,193,435	c 37	N80-23653 *	US-PATENT-4,230,717	c 52	N81-14613 *	US-PATENT-4,274,901	c 24	N81-33235 *
US-PATENT-4,193,570	c 35	N80-21719 *	US-PATENT-4,233,258	c 27	N81-14078 *	US-PATENT-4,275,317	c 33	N82-24418 *
US-PATENT-4,193,693	c 35	N80-20563 *	US-PATENT-4,233,606	c 32	N81-14185 *	US-PATENT-4,275,453	c 33	N82-24417 *
US-PATENT-4,193,827	c 28	N80-20402 *	US-PATENT-4,234,258	c 25	N81-14015 *	US-PATENT-4,276,344	c 27	N81-27272 *
US-PATENT-4,193,827	c 28	N81-14103 *	US-PATENT-4,234,715	c 25	N81-14016 *	US-PATENT-4,276,344	c 27	N85-21347 *
US-PATENT-4,194,115	c 25	N80-20334 *	US-PATENT-4,234,971	c 32	N81-14186 *	US-PATENT-4,276,403	c 27	N81-27271 *
US-PATENT-4,195,244	c 35	N80-20559 *	US-PATENT-4,235,060	c 37	N81-14317 *	US-PATENT-4,276,553	c 32	N81-27341 *
US-PATENT-4,195,279	c 35	N80-20560 *	US-PATENT-4,236,383	c 44	N81-17518 *	US-PATENT-4,276,588	c 33	N81-33404 *
US-PATENT-4,195,512	c 43	N80-23711 *	US-PATENT-4,236,684	c 08	N81-19130 *	US-PATENT-4,277,402	c 23	N82-16174 *
US-PATENT-4,195,666	c 37	N80-23654 *	US-PATENT-4,237,662	c 31	N81-27323 *	US-PATENT-4,277,721	c 33	N82-24415 *
US-PATENT-4,196,129	c 27	N80-32515 *	US-PATENT-4,238,911	c 31	N81-27324 *	US-PATENT-4,278,220	c 07	N82-26293 *
US-PATENT-4,196,619	c 46	N80-24906 *	US-PATENT-4,239,057	c 37	N81-17433 *	US-PATENT-4,278,351	c 74	N81-29963 *
US-PATENT-4,196,840	c 37	N80-23655 *	US-PATENT-4,240,256	c 37	N81-17432 *	US-PATENT-4,278,830	c 44	N81-29525 *
US-PATENT-4,197,530	c 33	N80-23559 *	US-PATENT-4,240,290	c 06	N81-17057 *	US-PATENT-4,278,830	c 44	N82-28780 *
US-PATENT-4,198,209	c 28	N80-23471 *	US-PATENT-4,240,601	c 43	N81-17499 *	US-PATENT-4,278,978	c 32	N81-29308 *
US-PATENT-4,198,232	c 26	N80-23419 *	US-PATENT-4,241,308	c 33	N81-17349 *	US-PATENT-4,279,018	c 33	N81-33405 *
US-PATENT-4,198,788	c 74	N80-24149 *	US-PATENT-4,241,312	c 35	N81-19427 *	US-PATENT-4,279,001	c 33	N82-24416 *
US-PATENT-4,198,792	c 25	N80-23383 *	US-PATENT-4,242,498	c 27	N81-17259 *	US-PATENT-4,279,632	c 31	N81-33319 *
US-PATENT-4,198,988	c 52	N80-23969 *	US-PATENT-4,242,553	c 33	N81-19389 *	US-PATENT-4,279,906	c 52	N81-29764 *
US-PATENT-4,199,448	c 27	N80-23452 *	US-PATENT-4,242,864	c 07	N81-19116 *	US-PATENT-4,280,141	c 33	N81-33403 *
US-PATENT-4,199,650	c 27	N80-24437 *	US-PATENT-4,243,323	c 74	N81-17888 *	US-PATENT-4,280,689	c 37	N81-33482 *
US-PATENT-4,199,764	c 32	N80-23524 *	US-PATENT-4,243,327	c 74	N81-17887 *	US-PATENT-4,280,766	c 35	N81-33448 *
US-PATENT-4,199,937	c 34	N80-24573 *	US-PATENT-4,244,215	c 04	N81-21047 *	US-PATENT-4,281,102	c 27	N81-29229 *
US-PATENT-4,199,937	c 44	N81-24519 *	US-PATENT-4,244,810	c 09	N82-29330 *	US-PATENT-4,281,384	c 18	N81-29152 *
US-PATENT-4,200,721	c 27	N80-24438 *	US-PATENT-4,244,853	c 27	N81-19296 *	US-PATENT-4,281,708	c 33	N82-24419 *
US-PATENT-4,201,468	c 32	N80-24510 *	US-PATENT-4,244,857	c 27	N81-17260 *	US-PATENT-4,282,479	c 33	N82-24420 *
US-PATENT-4,203,723	c 27	N80-26446 *	US-PATENT-4,245,085	c 27	N81-17262 *	US-PATENT-4,282,525	c 46	N82-12685 *
US-PATENT-4,204,037	c 51	N80-27067 *	US-PATENT-4,245,286	c 33	N81-19392 *	US-PATENT-4,282,752	c 44	N82-16474 *
US-PATENT-4,204,154	c 33	N80-26599 *	US-PATENT-4,245,288	c 33	N81-19393 *	US-PATENT-4,283,705	c 06	N82-16075 *
US-PATENT-4,204,402	c 07	N80-26298 *	US-PATENT-4,245,469	c 44	N81-24519 *	US-PATENT-4,283,995	c 37	N81-32510 *
US-PATENT-4,204,544	c 52	N80-27072 *	US-PATENT-4,245,566	c 31	N81-19343 *	US-PATENT-4,284,034	c 51	N81-32829 *
US-PATENT-4,204,899	c 24	N80-26388 *	US-PATENT-4,245,768	c 37	N81-19455 *	US-PATENT-4,284,461	c 27	N82-11206 *
US-PATENT-4,205,229	c 35	N80-26635 *	US-PATENT-4,245,956	c 05	N81-19087 *	US-PATENT-4,284,682	c 27	N82-16238 *
US-PATENT-4,206,383	c 72	N80-27163 *	US-PATENT-4,246,001	c 27	N81-17261 *	US-PATENT-4,286,209	c 35	N82-11431 *
US-PATENT-4,206,713	c 31	N81-15154 *	US-PATENT-4,246,901	c 52	N81-24711 *	US-PATENT-4,286,460	c 09	N82-11088 *
US-PATENT-4,206,970	c 74	N80-27185 *	US-PATENT-4,247,434	c 25	N81-19242 *	US-PATENT-4,286,542	c 37	N82-12441 *
US-PATENT-4,207,024	c 37	N80-26658 *	US-PATENT-4,248,083	c 35	N81-19426 *	US-PATENT-4,287,152	c 35	N82-11432 *
US-PATENT-4,207,024	c 37	N82-19540 *	US-PATENT-4,249,116	c 33	N81-20352 *	US-PATENT-4,287,518	c 32	N82-11336 *
US-PATENT-4,209,393	c 45	N82-11634 *	US-PATENT-4,249,238	c 07	N81-19115 *	US-PATENT-4,287,578	c 32	N82-18443 *
US-PATENT-4,209,561	c 24	N81-13999 *	US-PATENT-4,249,417	c 52	N81-20703 *	US-PATENT-4,287,606	c 74	N82-19029 *
US-PATENT-4,210,278	c 31	N80-32583 *	US-PATENT-4,249,957	c 44	N81-19558 *	US-PATENT-4,287,838	c 25	N82-11144 *
US-PATENT-4,210,401	c 35	N80-28687 *	US-PATENT-4,250,143	c 54	N81-24724 *	US-PATENT-4,288,585	c 27	N82-18389 *
US-PATENT-4,210,474	c 28	N80-28536 *	US-PATENT-4,252,007	c 33	N81-25299 *	US-PATENT-4,288,982	c 20	N82-18314 *
US-PATENT-4,210,622	c 44	N80-24741 *	US-PATENT-4,252,111	c 52	N81-25661 *	US-PATENT-4,290,612	c 37	N82-16408 *
US-PATENT-4,211,354	c 24	N81-17170 *	US-PATENT-4,252,440	c 39	N81-25400 *	US-PATENT-4,290,779	c 44	N82-16475 *
US-PATENT-4,211,354	c 24	N81-26179 *	US-PATENT-4,252,768	c 37	N81-25371 *	US-PATENT-4,291,294	c 04	N82-16059 *
US-PATENT-4,212,199	c 02	N80-28300 *	US-PATENT-4,253,156	c 34	N81-26402 *	US-PATENT-4,291,887	c 37	N82-12442 *
US-PATENT-4,212,297	c 51	N81-14605 *	US-PATENT-4,253,769	c 25	N81-25159 *	US-PATENT-4,292,375	c 24	N82-24296 *
US-PATENT-4,212,477	c 37	N80-28711 *	US-PATENT-4,254,464	c 62	N81-24779 *	US-PATENT-4,292,634	c 32	N82-12297 *
US-PATENT-4,212,477	c 37	N81-26447 *	US-PATENT-4,255,048	c 36	N81-24422 *	US-PATENT-4,293,522	c 25	N82-12166 *
US-PATENT-4,212,690	c 26	N80-28492 *	US-PATENT-4,255,495	c 26	N81-25188 *	US-PATENT-4,294,261	c 52	N82-11770 *
US-PATENT-4,213,051	c 35	N80-28686 *	US-PATENT-4,255,929	c 37	N81-25370 *	US-PATENT-4,294,264	c 52	N82-22875 *
US-PATENT-4,213,064	c 60	N81-15706 *	US-PATENT-4,256,093	c 52	N81-25660 *	US-PATENT-4,295,111	c 33	N82-11357 *
US-PATENT-4,213,131	c 32	N80-28578 *	US-PATENT-4,258,366	c 32	N81-25278 *	US-PATENT-4,295,140	c 35	N82-15381 *
US-PATENT-4,213,684	c 74	N81-17886 *	US-PATENT-4,259,821	c 31	N81-25258 *	US-PATENT-4,295,786	c 37	N82-19540 *
US-PATENT-4,214,226	c 31	N80-32584 *	US-PATENT-4,259,825	c 31	N81-25259 *	US-PATENT-4,298,833	c 33	N82-18493 *
US-PATENT-4,214,684	c 07	N80-32392 *	US-PATENT-4,260,166	c 37	N81-24442 *	US-PATENT-4,298,926	c 33	N82-18494 *
US-PATENT-4,214,703	c 26	N80-32484 *	US-PATENT-4,260,187	c 37	N81-27519 *	US-PATENT-4,298,987	c 60	N82-16747 *
US-PATENT-4,214,902	c 24	N80-33482 *	US-PATENT-4,261,349	c 52	N81-25662 *	US-PATENT-4,299,492	c 36	N82-16396 *
US-PATENT-4,214,905	c 26	N80-33482 *	US-PATENT-4,261,537	c 08	N81-24106 *	US-PATENT-4,300,106	c 36	N82-13415 *
US-PATENT-4,215,273	c 74	N80-33210 *	US-PATENT-4,262,064	c 44	N81-24521 *	US-PATENT-4,300,159	c 43	N82-13465 *
US-PATENT-4,215,327	c 32	N80-32605 *	US-PATENT-4,262,067	c 27	N81-24257 *	US-PATENT-4,300,656	c 71	N82-16800 *
US-PATENT-4,215,345	c 04	N80-32359 *	US-PATENT-4,262,080	c 27	N81-25209 *	US-PATENT-4,300,723	c 34	N82-13376 *
US-PATENT-4,215,548	c 37	N80-31790 *	US-PATENT-4,262,195	c 44	N81-24520 *	US-PATENT-4,301,740	c 37	N82-21587 *
US-PATENT-4,215,590	c 37	N80-32717 *	US-PATENT-4,262,198	c 74	N83-19597 *	US-PATENT-4,302,223	c 25	N82-21269 *
US-PATENT-4,215,592	c 37	N80-32716 *	US-PATENT-4,262,206	c 74	N81-24900 *	US-PATENT-4,302,734	c 33	N82-16340 *
US-PATENT-4,216,186	c 76	N80-32244 *	US-PATENT-4,262,258	c 33	N81-27396 *	US-PATENT-4,303,961	c 28	N82-18401 *
US-PATENT-4,216,542	c 33	N81-15192 *	US-PATENT-4,262,259	c 33	N81-24338 *	US-PATENT-4,304,219	c 44	N82-18686 *
US-PATENT-4,217,165	c 76	N80-32245 *						

REPORT NUMBER INDEX

US-PATENT-4,428,675

US-PATENT-4,304,320	c 37	N82-18601 *	US-PATENT-4,350,410	c 74	N83-10900 *	US-PATENT-4,393,716	c 39	N83-32081 *
US-PATENT-4,305,205	c 37	N82-26672 *	US-PATENT-4,350,574	c 44	N83-10494 *	US-PATENT-4,393,777	c 37	N84-12491 *
US-PATENT-4,307,024	c 25	N82-24312 *	US-PATENT-4,351,022	c 33	N83-10345 *	US-PATENT-4,394,610	c 33	N83-31953 *
US-PATENT-4,307,510	c 60	N82-24839 *	US-PATENT-4,355,311	c 32	N83-31918 *	US-PATENT-4,394,726	c 60	N83-32342 *
US-PATENT-4,307,575	c 44	N82-26776 *	US-PATENT-4,355,870	c 74	N83-13978 *	US-PATENT-4,394,819	c 35	N83-32026 *
US-PATENT-4,307,856	c 05	N82-26277 *	US-PATENT-4,355,896	c 47	N83-32232 *	US-PATENT-4,395,123	c 74	N83-32577 *
US-PATENT-4,308,309	c 27	N82-24339 *	US-PATENT-4,357,402	c 25	N83-13188 *	US-PATENT-4,395,503	c 27	N83-34043 *
US-PATENT-4,308,868	c 52	N82-29863 *	US-PATENT-4,358,358	c 25	N83-13187 *	US-PATENT-4,395,511	c 27	N84-14324 *
US-PATENT-4,309,039	c 37	N82-24490 *	US-PATENT-4,358,480	c 24	N83-13172 *	US-PATENT-4,395,540	c 27	N84-22746 *
US-PATENT-4,309,146	c 44	N82-24639 *	US-PATENT-4,358,486	c 24	N83-13171 *	US-PATENT-4,395,540	c 27	N85-20123 *
US-PATENT-4,309,372	c 25	N82-21268 *	US-PATENT-4,358,732	c 33	N83-18996 *	US-PATENT-4,395,557	c 27	N83-31854 *
US-PATENT-4,310,049	c 25	N82-23282 *	US-PATENT-4,358,846	c 32	N83-13323 *	US-PATENT-4,395,557	c 27	N84-22745 *
US-PATENT-4,310,132	c 24	N82-26384 *	US-PATENT-4,360,325	c 44	N83-14693 *	US-PATENT-4,395,557	c 27	N85-21347 *
US-PATENT-4,310,574	c 27	N82-28441 *	US-PATENT-4,360,701	c 44	N83-14692 *	US-PATENT-4,395,656	c 33	N83-31952 *
US-PATENT-4,310,906	c 33	N82-26572 *	US-PATENT-4,362,361	c 74	N83-17305 *	US-PATENT-4,396,918	c 04	N84-27713 *
US-PATENT-4,311,055	c 54	N82-26987 *	US-PATENT-4,362,769	c 27	N83-34039 *	US-PATENT-4,397,716	c 44	N83-34449 *
US-PATENT-4,311,057	c 37	N82-24493 *	US-PATENT-4,363,188	c 51	N83-17045 *	US-PATENT-4,398,021	c 27	N83-34041 *
US-PATENT-4,311,378	c 35	N82-26628 *	US-PATENT-4,363,237	c 71	N83-17235 *	US-PATENT-4,398,021	c 27	N85-20124 *
US-PATENT-4,311,615	c 25	N82-26396 *	US-PATENT-4,363,242	c 33	N83-16626 *	US-PATENT-4,398,129	c 33	N83-34189 *
US-PATENT-4,311,870	c 44	N82-26777 *	US-PATENT-4,366,680	c 31	N83-31897 *	US-PATENT-4,398,412	c 35	N84-28018 *
US-PATENT-4,312,292	c 37	N82-24492 *	US-PATENT-4,370,750	c 34	N83-19015 *	US-PATENT-4,398,667	c 71	N84-14873 *
US-PATENT-4,313,077	c 33	N82-26569 *	US-PATENT-4,371,301	c 37	N83-19091 *	US-PATENT-4,398,925	c 71	N83-35781 *
US-PATENT-4,313,103	c 33	N82-26570 *	US-PATENT-4,371,596	c 44	N83-32176 *	US-PATENT-4,399,415	c 36	N83-35350 *
US-PATENT-4,313,291	c 09	N82-29330 *	US-PATENT-4,371,873	c 32	N83-19968 *	US-PATENT-4,399,515	c 35	N84-14491 *
US-PATENT-4,313,726	c 09	N82-24212 *	US-PATENT-4,371,946	c 32	N83-18975 *	US-PATENT-4,400,191	c 31	N83-35176 *
US-PATENT-4,313,745	c 27	N82-28442 *	US-PATENT-4,372,110	c 07	N83-33884 *	US-PATENT-4,400,642	c 76	N83-34796 *
US-PATENT-4,313,777	c 33	N82-26571 *	US-PATENT-4,372,158	c 44	N83-21503 *	US-PATENT-4,400,657	c 33	N83-34190 *
US-PATENT-4,314,984	c 25	N82-28368 *	US-PATENT-4,372,159	c 44	N83-21504 *	US-PATENT-4,401,505	c 76	N83-35888 *
US-PATENT-4,315,194	c 33	N82-26568 *	US-PATENT-4,372,377	c 74	N83-19596 *	US-PATENT-4,401,934	c 33	N83-35227 *
US-PATENT-4,315,197	c 33	N82-24421 *	US-PATENT-4,372,680	c 35	N83-21311 *	US-PATENT-4,401,953	c 33	N83-34191 *
US-PATENT-4,315,266	c 32	N82-27558 *	US-PATENT-4,373,003	c 27	N83-18908 *	US-PATENT-4,402,221	c 71	N83-36846 *
US-PATENT-4,316,035	c 23	N82-28353 *	US-PATENT-4,373,039	c 27	N83-19900 *	US-PATENT-4,402,358	c 34	N83-35307 *
US-PATENT-4,317,102	c 35	N82-24470 *	US-PATENT-4,373,142	c 44	N83-32175 *	US-PATENT-4,402,447	c 35	N83-35338 *
US-PATENT-4,319,133	c 33	N82-28545 *	US-PATENT-4,373,989	c 76	N83-20789 *	US-PATENT-4,402,992	c 31	N83-35177 *
US-PATENT-4,320,290	c 74	N82-24072 *	US-PATENT-4,374,183	c 26	N83-31795 *	US-PATENT-4,404,469	c 74	N84-11920 *
US-PATENT-4,320,397	c 32	N82-23376 *	US-PATENT-4,374,378	c 35	N83-34272 *	US-PATENT-4,404,793	c 07	N83-36029 *
US-PATENT-4,320,911	c 37	N82-24494 *	US-PATENT-4,375,281	c 05	N83-19737 *	US-PATENT-4,405,184	c 37	N84-12492 *
US-PATENT-4,321,099	c 44	N82-28780 *	US-PATENT-4,375,396	c 31	N83-19947 *	US-PATENT-4,405,197	c 74	N84-11921 *
US-PATENT-4,321,572	c 33	N82-24422 *	US-PATENT-4,375,536	c 27	N83-34040 *	US-PATENT-4,406,256	c 37	N83-36483 *
US-PATENT-4,325,001	c 35	N82-24471 *	US-PATENT-4,375,674	c 39	N83-20280 *	US-PATENT-4,406,797	c 25	N83-36118 *
US-PATENT-4,325,707	c 25	N82-29371 *	US-PATENT-4,376,637	c 35	N84-17555 *	US-PATENT-4,406,989	c 33	N83-36356 *
US-PATENT-4,326,381	c 44	N82-24640 *	US-PATENT-4,376,872	c 44	N83-32177 *	US-PATENT-4,407,001	c 33	N83-36355 *
US-PATENT-4,326,685	c 04	N82-23231 *	US-PATENT-4,377,089	c 35	N83-21312 *	US-PATENT-4,407,165	c 37	N83-36482 *
US-PATENT-4,327,150	c 27	N82-24340 *	US-PATENT-4,377,169	c 52	N83-21785 *	US-PATENT-4,407,468	c 01	N83-35992 *
US-PATENT-4,327,437	c 60	N82-29013 *	US-PATENT-4,377,266	c 07	N83-20944 *	US-PATENT-4,407,563	c 74	N83-36898 *
US-PATENT-4,327,581	c 09	N82-23254 *	US-PATENT-4,377,343	c 74	N83-21949 *	US-PATENT-4,407,589	c 33	N83-36357 *
US-PATENT-4,328,464	c 36	N82-28616 *	US-PATENT-4,377,371	c 18	N83-20996 *	US-PATENT-4,407,686	c 35	N84-12443 *
US-PATENT-4,329,114	c 07	N82-32366 *	US-PATENT-4,377,371	c 37	N84-22957 *	US-PATENT-4,408,597	c 52	N84-11744 *
US-PATENT-4,329,385	c 27	N82-28440 *	US-PATENT-4,377,949	c 45	N83-25217 *	US-PATENT-4,408,658	c 27	N83-36220 *
US-PATENT-4,330,100	c 05	N82-28279 *	US-PATENT-4,378,209	c 35	N83-24828 *	US-PATENT-4,410,189	c 37	N84-11497 *
US-PATENT-4,330,359	c 76	N82-30105 *	US-PATENT-4,378,813	c 52	N83-25346 *	US-PATENT-4,410,682	c 24	N84-11213 *
US-PATENT-4,330,572	c 27	N82-33520 *	US-PATENT-4,379,970	c 33	N83-24763 *	US-PATENT-4,411,380	c 24	N84-11214 *
US-PATENT-4,331,422	c 52	N82-29862 *	US-PATENT-4,380,046	c 60	N83-25378 *	US-PATENT-4,411,597	c 07	N84-22560 *
US-PATENT-4,331,742	c 44	N82-29710 *	US-PATENT-4,381,174	c 37	N83-26078 *	US-PATENT-4,411,660	c 54	N84-11758 *
US-PATENT-4,331,746	c 44	N82-29708 *	US-PATENT-4,381,333	c 44	N83-34448 *	US-PATENT-4,412,664	c 02	N84-11136 *
US-PATENT-4,331,873	c 44	N82-32841 *	US-PATENT-4,381,375	c 37	N83-34323 *	US-PATENT-4,413,522	c 35	N84-12445 *
US-PATENT-4,331,956	c 33	N82-29538 *	US-PATENT-4,381,583	c 31	N83-31895 *	US-PATENT-4,413,784	c 34	N84-12406 *
US-PATENT-4,332,441	c 36	N82-29589 *	US-PATENT-4,381,881	c 74	N83-29032 *	US-PATENT-4,414,080	c 25	N84-12262 *
US-PATENT-4,335,190	c 27	N83-31855 *	US-PATENT-4,382,116	c 44	N83-27344 *	US-PATENT-4,414,509	c 35	N84-12444 *
US-PATENT-4,335,196	c 44	N83-13579 *	US-PATENT-4,382,224	c 33	N83-27126 *	US-PATENT-4,414,816	c 07	N84-24577 *
US-PATENT-4,335,206	c 35	N82-28604 *	US-PATENT-4,382,239	c 32	N83-27085 *	US-PATENT-4,415,133	c 05	N84-12154 *
US-PATENT-4,335,503	c 44	N82-29709 *	US-PATENT-4,383,171	c 35	N83-27184 *	US-PATENT-4,415,311	c 37	N84-12493 *
US-PATENT-4,336,117	c 26	N82-29415 *	US-PATENT-4,383,533	c 52	N83-27578 *	US-PATENT-4,415,450	c 45	N84-12654 *
US-PATENT-4,336,276	c 27	N82-29453 *	US-PATENT-4,383,785	c 31	N83-27058 *	US-PATENT-4,416,111	c 07	N84-33410 *
US-PATENT-4,336,616	c 33	N82-29539 *	US-PATENT-4,384,578	c 52	N83-27577 *	US-PATENT-4,416,266	c 52	N84-28388 *
US-PATENT-4,338,061	c 07	N83-31603 *	US-PATENT-4,384,823	c 34	N83-27144 *	US-PATENT-4,417,175	c 70	N84-28565 *
US-PATENT-4,338,368	c 27	N82-29456 *	US-PATENT-4,385,043	c 24	N83-25789 *	US-PATENT-4,417,190	c 33	N84-14424 *
US-PATENT-4,338,371	c 24	N82-29362 *	US-PATENT-4,385,113	c 51	N83-27569 *	US-PATENT-4,417,215	c 33	N84-14421 *
US-PATENT-4,338,371	c 54	N84-11758 *	US-PATENT-4,385,949	c 31	N83-34073 *	US-PATENT-4,418,130	c 33	N84-14422 *
US-PATENT-4,338,516	c 74	N82-30071 *	US-PATENT-4,386,157	c 51	N83-28849 *	US-PATENT-4,418,480	c 04	N84-14132 *
US-PATENT-4,338,568	c 33	N83-31954 *	US-PATENT-4,386,750	c 18	N83-28064 *	US-PATENT-4,418,722	c 44	N84-14583 *
US-PATENT-4,340,318	c 37	N82-32732 *	US-PATENT-4,387,513	c 06	N83-33882 *	US-PATENT-4,420,035	c 34	N84-14461 *
US-PATENT-4,340,425	c 26	N82-31505 *	US-PATENT-4,387,935	c 37	N83-32067 *	US-PATENT-4,420,352	c 27	N84-22748 *
US-PATENT-4,341,012	c 35	N82-31659 *	US-PATENT-4,388,171	c 23	N84-16255 *	US-PATENT-4,420,518	c 27	N84-14323 *
US-PATENT-4,341,843	c 26	N82-30371 *	US-PATENT-4,388,346	c 33	N84-16456 *	US-PATENT-4,420,836	c 36	N84-14509 *
US-PATENT-4,341,918	c 44	N82-31764 *	US-PATENT-4,388,502	c 05	N83-27975 *	US-PATENT-4,420,977	c 71	N84-23233 *
US-PATENT-4,341,925	c 32	N82-31583 *	US-PATENT-4,388,542	c 44	N83-28573 *	US-PATENT-4,421,109	c 54	N84-16803 *
US-PATENT-4,343,287	c 37	N82-32730 *	US-PATENT-4,388,585	c 33	N83-28319 *	US-PATENT-4,421,371	c 33	N84-14423 *
US-PATENT-4,343,447	c 08	N82-32373 *	US-PATENT-4,388,585	c 33	N84-33660 *	US-PATENT-4,421,700	c 24	N84-16262 *
US-PATENT-4,343,506	c 85	N82-33288 *	US-PATENT-4,388,965	c 34	N83-28356 *	US-PATENT-4,421,820	c 27	N84-14322 *
US-PATENT-4,343,584	c 37	N82-32731 *	US-PATENT-4,389,504	c 27	N83-28240 *	US-PATENT-4,422,012	c 33	N84-16452 *
US-PATENT-4,343,772	c 44	N83-10501 *	US-PATENT-4,389,504	c 27	N85-21349 *	US-PATENT-4,422,609	c 37	N84-18560 *
US-PATENT-4,344,591	c 24	N82-32417 *	US-PATENT-4,389,849	c 44	N83-28574 *	US-PATENT-4,423,605	c 34	N84-22903 *
US-PATENT-4,344,787	c 31	N83-31896 *	US-PATENT-4,389,904	c 35	N83-29650 *	US-PATENT-4,424,592	c 36	N84-16542 *
US-PATENT-4,344,996	c 27	N82-33521 *	US-PATENT-4,391,129	c 34	N83-31993 *	US-PATENT-4,425,376	c 71	N84-16940 *
US-PATENT-4,345,153	c 35	N82-32659 *	US-PATENT-4,391,423	c 18	N83-29303 *	US-PATENT-4,425,543	c 33	N84-16454 *
US-PATENT-4,346,595	c 06	N83-10040 *	US-PATENT-4,391,514	c 36	N83-34304 *	US-PATENT-4,425,785	c 15	N84-16231 *
US-PATENT-4,346,595	c 06	N84-34443 *	US-PATENT-4,391,518	c 36	N83-29680 *	US-PATENT-4,425,808	c 35	N84-28015 *
US-PATENT-4,346,715	c 52	N82-33996 *	US-PATENT-4,391,609	c 25	N83-31743 *	US-PATENT-4,425,808	c 35	N85-21598 *
US-PATENT-4,346,754	c 34	N83-34221 *	US-PATENT-4,392,356	c 34	N83-29625 *	US-PATENT-4,425,854	c 25	N84-16276 *
US-PATENT-4,346,990	c 36	N82-32712 *	US-PATENT-4,392,749	c 35	N83-29651 *	US-PATENT-4,426,614	c 33	N84-16455 *
US-PATENT-4,347,613	c 36	N83-10417 *	US-PATENT-4,392,874	c 35	N83-29652 *	US-PATENT-4,426,678	c 33	N84-16453 *
US-PATENT-4,349,424	c 24	N83-10117 *	US-PATENT-4,392,920	c 27	N83-29388 *	US-PATENT-4,426,874	c 35	N84-28019 *
US-PATENT-4,349,424	c 70	N84-28565 *	US-PATENT-4,393,039	c 25	N83-29324 *	US-PATENT-4,428,122	c 35	N84-16523 *
US-PATENT-4,349,429	c 25	N83-10126 *	US-PATENT-4,393,706	c 71	N83-32516 *	US-PATENT-4,428,226	c 07	N84-22559 *
US-PATENT-4,349,954	c 26	N83-10170 *	US-PATENT-4,393,708	c 71	N83-32515 *	US-PATENT-4,428,675	c 35	N84-22929 *

US-PATENT-4,428,703

REPORT NUMBER INDEX

US-PATENT-4,428,703	c 37	N84-16561 *	US-PATENT-4,474,975	c 25	N85-21280 *	US-PATENT-4,522,661	c 76	N85-30922 *
US-PATENT-4,429,537	c 37	N84-22958 *	US-PATENT-4,475,063	c 33	N85-21491 *	US-PATENT-4,522,755	c 27	N86-19455 *
US-PATENT-4,430,360	c 37	N84-22957 *	US-PATENT-4,475,385	c 09	N84-34448 *	US-PATENT-4,522,844	c 26	N85-29005 *
US-PATENT-4,430,673	c 74	N84-23247 *	US-PATENT-4,475,527	c 37	N85-21650 *	US-PATENT-4,523,008	c 27	N85-29043 *
US-PATENT-4,431,306	c 35	N84-22931 *	US-PATENT-4,475,921	c 71	N85-22104 *	US-PATENT-4,523,682	c 71	N85-30765 *
US-PATENT-4,431,333	c 18	N84-22605 *	US-PATENT-4,478,879	c 44	N85-20530 *	US-PATENT-4,523,741	c 37	N85-29284 *
US-PATENT-4,431,333	c 27	N84-22747 *	US-PATENT-4,479,053	c 74	N85-22139 *	US-PATENT-4,523,810	c 74	N85-29749 *
US-PATENT-4,431,792	c 27	N84-22746 *	US-PATENT-4,479,386	c 27	N85-20126 *	US-PATENT-4,524,237	c 44	N85-30475 *
US-PATENT-4,432,853	c 52	N84-23095 *	US-PATENT-4,479,560	c 35	N85-20294 *	US-PATENT-4,526,925	c 27	N86-20560 *
US-PATENT-4,433,115	c 27	N84-22745 *	US-PATENT-4,481,570	c 60	N85-21992 *	US-PATENT-4,526,925	c 27	N87-22845 *
US-PATENT-4,433,276	c 33	N84-22885 *	US-PATENT-4,482,778	c 44	N85-21768 *	US-PATENT-4,527,092	c 37	N85-33489 *
US-PATENT-4,433,439	c 54	N84-23113 *	US-PATENT-4,482,779	c 33	N85-21492 *	US-PATENT-4,527,910	c 37	N85-33490 *
US-PATENT-4,433,544	c 44	N84-23018 *	US-PATENT-4,483,512	c 37	N85-20338 *	US-PATENT-4,528,386	c 23	N85-33187 *
US-PATENT-4,433,672	c 44	N84-28203 *	US-PATENT-4,483,639	c 37	N85-21649 *	US-PATENT-4,528,417	c 44	N85-34441 *
US-PATENT-4,434,106	c 27	N84-22744 *	US-PATENT-4,483,817	c 25	N85-21279 *	US-PATENT-4,528,639	c 60	N85-33701 *
US-PATENT-4,434,189	c 36	N84-22944 *	US-PATENT-4,485,151	c 24	N85-21266 *	US-PATENT-4,529,358	c 34	N85-33433 *
US-PATENT-4,434,490	c 36	N84-22943 *	US-PATENT-4,485,151	c 24	N85-35233 *	US-PATENT-4,531,143	c 33	N86-19516 *
US-PATENT-4,434,659	c 35	N84-22928 *	US-PATENT-4,485,670	c 34	N85-21568 *	US-PATENT-4,532,797	c 35	N85-34373 *
US-PATENT-4,435,642	c 35	N84-28016 *	US-PATENT-4,485,671	c 35	N85-20295 *	US-PATENT-4,533,101	c 07	N86-35194 *
US-PATENT-4,435,781	c 60	N84-28491 *	US-PATENT-4,485,992	c 08	N85-19985 *	US-PATENT-4,533,242	c 74	N85-34629 *
US-PATENT-4,437,069	c 33	N84-22887 *	US-PATENT-4,488,155	c 33	N85-21493 *	US-PATENT-4,534,166	c 07	N85-35195 *
US-PATENT-4,437,923	c 35	N84-22930 *	US-PATENT-4,488,335	c 27	N85-20125 *	US-PATENT-4,535,033	c 24	N85-35233 *
US-PATENT-4,437,961	c 33	N84-22884 *	US-PATENT-4,488,663	c 35	N85-21595 *	US-PATENT-4,535,035	c 26	N85-35267 *
US-PATENT-4,437,962	c 24	N84-22695 *	US-PATENT-4,489,027	c 27	N85-20124 *	US-PATENT-4,535,636	c 35	N85-34375 *
US-PATENT-4,437,962	c 24	N85-21267 *	US-PATENT-4,489,239	c 36	N85-21631 *	US-PATENT-4,536,114	c 37	N85-34401 *
US-PATENT-4,439,301	c 44	N84-23019 *	US-PATENT-4,489,243	c 44	N85-21769 *	US-PATENT-4,536,565	c 27	N85-34280 *
US-PATENT-4,439,465	c 26	N84-22734 *	US-PATENT-4,489,264	c 33	N85-22877 *	US-PATENT-4,537,554	c 85	N85-34722 *
US-PATENT-4,439,718	c 33	N84-22886 *	US-PATENT-4,490,117	c 09	N85-19990 *	US-PATENT-4,537,834	c 27	N85-34281 *
US-PATENT-4,439,766	c 32	N84-22820 *	US-PATENT-4,490,229	c 31	N85-20153 *	US-PATENT-4,538,066	c 35	N85-34374 *
US-PATENT-4,439,968	c 16	N84-22601 *	US-PATENT-4,491,427	c 37	N85-21651 *	US-PATENT-4,538,446	c 34	N86-12547 *
US-PATENT-4,442,716	c 35	N84-22934 *	US-PATENT-4,493,021	c 32	N85-21428 *	US-PATENT-4,538,778	c 08	N85-35200 *
US-PATENT-4,443,321	c 25	N84-22709 *	US-PATENT-4,493,211	c 09	N85-21178 *	US-PATENT-4,539,293	c 23	N85-35227 *
US-PATENT-4,443,701	c 74	N84-28590 *	US-PATENT-4,493,553	c 36	N85-21639 *	US-PATENT-4,540,986	c 04	N86-19304 *
US-PATENT-4,443,724	c 35	N84-28017 *	US-PATENT-4,495,044	c 24	N85-21267 *	US-PATENT-4,542,520	c 74	N86-20126 *
US-PATENT-4,444,368	c 05	N84-22551 *	US-PATENT-4,495,339	c 25	N85-30039 *	US-PATENT-4,542,858	c 33	N86-20669 *
US-PATENT-4,444,464	c 74	N84-23248 *	US-PATENT-4,495,520	c 32	N85-21427 *	US-PATENT-4,542,963	c 74	N86-20125 *
US-PATENT-4,444,972	c 27	N84-22750 *	US-PATENT-4,496,122	c 05	N85-21147 *	US-PATENT-4,543,295	c 27	N86-20561 *
US-PATENT-4,444,979	c 27	N84-22749 *	US-PATENT-4,496,701	c 27	N85-21347 *	US-PATENT-4,543,302	c 44	N86-19721 *
US-PATENT-4,445,118	c 04	N84-22546 *	US-PATENT-4,497,540	c 74	N85-23396 *	US-PATENT-4,543,442	c 76	N86-20150 *
US-PATENT-4,445,378	c 35	N84-22933 *	US-PATENT-4,497,935	c 27	N85-21349 *	US-PATENT-4,544,025	c 35	N86-20750 *
US-PATENT-4,446,199	c 26	N84-33555 *	US-PATENT-4,497,939	c 27	N85-21351 *	US-PATENT-4,544,068	c 35	N86-20751 *
US-PATENT-4,446,396	c 35	N84-22932 *	US-PATENT-4,497,940	c 27	N85-21352 *	US-PATENT-4,545,025	c 60	N86-21154 *
US-PATENT-4,446,459	c 60	N84-28492 *	US-PATENT-4,497,948	c 27	N85-21350 *	US-PATENT-4,545,553	c 33	N86-20671 *
US-PATENT-4,446,556	c 36	N84-28065 *	US-PATENT-4,498,231	c 35	N85-21598 *	US-PATENT-4,545,586	c 37	N86-20788 *
US-PATENT-4,446,757	c 37	N84-28084 *	US-PATENT-4,498,333	c 35	N85-21597 *	US-PATENT-4,545,723	c 37	N86-19603 *
US-PATENT-4,447,251	c 71	N84-28568 *	US-PATENT-4,499,260	c 27	N85-21348 *	US-PATENT-4,546,248	c 32	N86-20647 *
US-PATENT-4,447,943	c 52	N84-28389 *	US-PATENT-4,499,424	c 35	N85-21596 *	US-PATENT-4,547,121	c 37	N86-20789 *
US-PATENT-4,448,408	c 37	N84-28083 *	US-PATENT-4,499,470	c 43	N85-21723 *	US-PATENT-4,547,686	c 33	N86-20672 *
US-PATENT-4,449,370	c 37	N84-33808 *	US-PATENT-4,500,265	c 31	N85-21404 *	US-PATENT-4,548,083	c 39	N86-20841 *
US-PATENT-4,449,400	c 47	N84-28292 *	US-PATENT-4,500,492	c 37	N85-21652 *	US-PATENT-4,549,435	c 35	N86-20752 *
US-PATENT-4,449,514	c 44	N84-28204 *	US-PATENT-4,503,436	c 32	N85-29118 *	US-PATENT-4,550,129	c 24	N86-19380 *
US-PATENT-4,449,894	c 37	N84-28081 *	US-PATENT-4,505,998	c 33	N85-29144 *	US-PATENT-4,550,177	c 23	N86-19376 *
US-PATENT-4,450,268	c 27	N84-27884 *	US-PATENT-4,506,183	c 34	N85-29179 *	US-PATENT-4,550,177	c 23	N86-24692 *
US-PATENT-4,450,447	c 32	N84-27951 *	US-PATENT-4,507,928	c 31	N85-29082 *	US-PATENT-4,550,292	c 33	N86-20668 *
US-PATENT-4,451,017	c 18	N84-27787 *	US-PATENT-4,508,296	c 18	N85-29991 *	US-PATENT-4,550,561	c 07	N86-20389 *
US-PATENT-4,451,496	c 26	N84-27855 *	US-PATENT-4,509,048	c 32	N85-34327 *	US-PATENT-4,551,677	c 35	N86-32698 *
US-PATENT-4,452,088	c 24	N84-27829 *	US-PATENT-4,509,130	c 36	N85-29264 *	US-PATENT-4,551,687	c 33	N86-20670 *
US-PATENT-4,452,412	c 16	N84-27784 *	US-PATENT-4,509,132	c 33	N85-34333 *	US-PATENT-4,551,724	c 43	N86-19711 *
US-PATENT-4,453,163	c 06	N84-27733 *	US-PATENT-4,509,548	c 37	N85-34403 *	US-PATENT-4,552,466	c 37	N86-19606 *
US-PATENT-4,454,611	c 54	N84-28484 *	US-PATENT-4,510,277	c 27	N85-34282 *	US-PATENT-4,552,784	c 26	N86-32550 *
US-PATENT-4,454,649	c 44	N84-28205 *	US-PATENT-4,510,296	c 23	N85-28973 *	US-PATENT-4,552,931	c 27	N86-19456 *
US-PATENT-4,454,753	c 09	N84-27749 *	US-PATENT-4,510,476	c 33	N85-29146 *	US-PATENT-4,553,110	c 33	N86-19515 *
US-PATENT-4,455,418	c 27	N84-27885 *	US-PATENT-4,511,362	c 25	N85-35253 *	US-PATENT-4,553,393	c 37	N86-19604 *
US-PATENT-4,455,418	c 25	N85-28982 *	US-PATENT-4,511,838	c 76	N85-30923 *	US-PATENT-4,553,917	c 26	N86-32551 *
US-PATENT-4,455,532	c 72	N84-28575 *	US-PATENT-4,512,332	c 44	N85-30474 *	US-PATENT-4,554,905	c 18	N86-20469 *
US-PATENT-4,455,680	c 32	N84-27952 *	US-PATENT-4,512,661	c 35	N85-30282 *	US-PATENT-4,556,327	c 35	N86-19580 *
US-PATENT-4,456,208	c 27	N84-27886 *	US-PATENT-4,512,678	c 37	N85-30334 *	US-PATENT-4,556,986	c 74	N86-21348 *
US-PATENT-4,456,708	c 51	N84-28361 *	US-PATENT-4,512,699	c 37	N85-29285 *	US-PATENT-4,557,097	c 31	N86-19479 *
US-PATENT-4,458,418	c 37	N84-28085 *	US-PATENT-4,512,846	c 76	N85-29800 *	US-PATENT-4,557,149	c 35	N86-19581 *
US-PATENT-4,458,554	c 37	N84-28082 *	US-PATENT-4,513,317	c 32	N85-29117 *	US-PATENT-4,557,444	c 05	N86-19310 *
US-PATENT-4,459,083	c 02	N84-28732 *	US-PATENT-4,513,423	c 36	N85-30305 *	US-PATENT-4,558,585	c 71	N86-21276 *
US-PATENT-4,459,470	c 27	N84-33589 *	US-PATENT-4,513,750	c 52	N85-30618 *	US-PATENT-4,558,967	c 37	N86-19605 *
US-PATENT-4,459,528	c 33	N84-27975 *	US-PATENT-4,513,810	c 35	N85-29214 *	US-PATENT-4,560,577	c 27	N86-19458 *
US-PATENT-4,459,562	c 33	N84-27974 *	US-PATENT-4,514,137	c 37	N85-29282 *	US-PATENT-4,560,742	c 27	N86-19457 *
US-PATENT-4,462,871	c 76	N84-35112 *	US-PATENT-4,514,143	c 05	N85-29947 *	US-PATENT-4,561,784	c 25	N86-19413 *
US-PATENT-4,463,357	c 46	N85-21846 *	US-PATENT-4,514,178	c 35	N85-29212 *	US-PATENT-4,562,583	c 74	N86-20124 *
US-PATENT-4,463,465	c 03	N84-33394 *	US-PATENT-4,514,557	c 25	N85-28982 *	US-PATENT-4,564,787	c 33	N86-21742 *
US-PATENT-4,463,606	c 71	N85-22105 *	US-PATENT-4,515,207	c 34	N85-29180 *	US-PATENT-4,565,557	c 31	N86-21718 *
US-PATENT-4,464,710	c 33	N84-33663 *	US-PATENT-4,515,751	c 35	N85-29213 *	US-PATENT-4,565,886	c 27	N86-21675 *
US-PATENT-4,466,242	c 20	N85-21256 *	US-PATENT-4,516,071	c 33	N85-30187 *	US-PATENT-4,566,447	c 54	N86-22112 *
US-PATENT-4,466,667	c 35	N84-33768 *	US-PATENT-4,516,435	c 37	N85-29286 *	US-PATENT-4,567,301	c 23	N86-21582 *
US-PATENT-4,469,552	c 76	N84-35113 *	US-PATENT-4,517,472	c 33	N85-29147 *	US-PATENT-4,567,348	c 37	N86-21850 *
US-PATENT-4,469,942	c 35	N84-33767 *	US-PATENT-4,517,505	c 37	N85-30333 *	US-PATENT-4,568,733	c 24	N86-21590 *
US-PATENT-4,469,998	c 33	N84-33661 *	US-PATENT-4,517,530	c 33	N85-29143 *	US-PATENT-4,572,004	c 35	N86-25752 *
US-PATENT-4,470,293	c 37	N84-33807 *	US-PATENT-4,518,277	c 37	N85-30336 *	US-PATENT-4,572,699	c 37	N87-22976 *
US-PATENT-4,470,403	c 44	N84-34792 *	US-PATENT-4,518,625	c 24	N85-30027 *	US-PATENT-4,573,356	c 71	N86-24241 *
US-PATENT-4,471,357	c 32	N84-34651 *	US-PATENT-4,518,722	c 27	N85-29044 *	US-PATENT-4,578,678	c 04	N86-27270 *
US-PATENT-4,472,473	c 18	N84-33450 *	US-PATENT-4,519,545	c 37	N85-29283 *	US-PATENT-4,578,920	c 37	N86-25789 *
US-PATENT-4,472,716	c 35	N84-33769 *	US-PATENT-4,520,601	c 37	N85-30335 *	US-PATENT-4,579,782	c 24	N86-25416 *
US-PATENT-4,472,728	c 35	N84-33765 *	US-PATENT-4,520,656	c 71	N85-29693 *	US-PATENT-4,579,302	c 18	N86-24729 *
US-PATENT-4,473,259	c 37	N85-20337 *	US-PATENT-4,521,077	c 74	N85-29750 *	US-PATENT-4,579,475	c 37	N86-27630 *
US-PATENT-4,473,674	c 24	N84-34571 *	US-PATENT-4,521,659	c 31	N85-29083 *	US-PATENT-4,580,791	c 37	N86-25790 *
US-PATENT-4,473,792	c 33	N84-33660 *	US-PATENT-4,521,688	c 35	N85-30281 *	US-PATENT-4,582,277	c 16	N86-26352 *
US-PATENT-4,474,062	c 06	N84-34443 *	US-PATENT-4,521,702	c 33	N85-29145 *	US-PATENT-4,582,289	c 37	N87-21333 *
US-PATENT-4,474,180	c 52	N84-34913 *	US-PATENT-4,521,854	c 33	N85-29142 *	US-PATENT-4,582,590	c 25	N86-25428 *
US-PATENT-4,474,471	c 35	N84-34705 *	US-PATENT-4,522,469	c 76	N85-33826 *	US-PATENT-4,583,587	c 34	N86-27593 *

REPORT NUMBER INDEX

US-PATENT-4,839,046

US-PATENT-4,583,860	c 74	N86-26190 *	US-PATENT-4,649,541	c 60	N87-21591 *	US-PATENT-4,735,381	c 05	N88-23765 *
US-PATENT-4,584,249	c 44	N86-25874 *	US-PATENT-4,649,750	c 71	N87-21653 *	US-PATENT-4,736,247	c 36	N88-24958 *
US-PATENT-4,584,510	c 08	N86-27288 *	US-PATENT-4,650,108	c 37	N87-21334 *	US-PATENT-4,736,490	c 18	N88-23827 *
US-PATENT-4,584,887	c 35	N86-26595 *	US-PATENT-4,650,385	c 37	N87-22976 *	US-PATENT-4,736,676	c 37	N88-23981 *
US-PATENT-4,585,191	c 20	N86-26368 *	US-PATENT-4,652,833	c 33	N87-21235 *	US-PATENT-4,736,815	c 71	N88-24241 *
US-PATENT-4,585,344	c 35	N86-25753 *	US-PATENT-4,654,065	c 27	N87-21111 *	US-PATENT-4,736,927	c 35	N88-24927 *
US-PATENT-4,586,140	c 06	N86-27280 *	US-PATENT-4,654,110	c 76	N87-23286 *	US-PATENT-4,738,137	c 35	N88-23966 *
US-PATENT-4,586,394	c 35	N87-21304 *	US-PATENT-4,655,482	c 37	N87-22977 *	US-PATENT-4,738,583	c 18	N88-23828 *
US-PATENT-4,586,487	c 44	N86-27706 *	US-PATENT-4,657,044	c 37	N87-21332 *	US-PATENT-4,738,831	c 76	N88-24544 *
US-PATENT-4,587,312	c 27	N86-27450 *	US-PATENT-4,660,000	c 33	N87-21232 *	US-PATENT-4,740,264	c 76	N88-24545 *
US-PATENT-4,587,324	c 23	N86-32525 *	US-PATENT-4,661,558	c 27	N87-22848 *	US-PATENT-4,742,232	c 72	N88-24253 *
US-PATENT-4,587,526	c 37	N86-25791 *	US-PATENT-4,661,770	c 33	N87-22894 *	US-PATENT-4,748,263	c 23	N88-24692 *
US-PATENT-4,588,778	c 27	N86-27451 *	US-PATENT-4,662,220	c 35	N87-22953 *	US-PATENT-4,749,839	c 37	N88-23980 *
US-PATENT-4,588,986	c 32	N86-27513 *	US-PATENT-4,662,751	c 74	N87-23259 *	US-PATENT-4,750,031	c 33	N88-23941 *
US-PATENT-4,591,772	c 37	N86-27629 *	US-PATENT-4,663,627	c 06	N87-22678 *	US-PATENT-4,750,144	c 60	N88-24169 *
US-PATENT-4,591,838	c 25	N86-27431 *	US-PATENT-4,663,483	c 27	N87-22847 *	US-PATENT-4,750,543	c 34	N88-23958 *
US-PATENT-4,593,415	c 54	N86-28618 *	US-PATENT-4,664,177	c 34	N87-22950 *	US-PATENT-4,752,372	c 25	N88-23845 *
US-PATENT-4,594,540	c 31	N86-29055 *	US-PATENT-4,664,177	c 34	N88-23958 *	US-PATENT-4,757,278	c 33	N88-26596 *
US-PATENT-4,594,720	c 36	N86-29204 *	US-PATENT-4,664,344	c 37	N87-22985 *	US-PATENT-4,757,315	c 32	N88-26568 *
US-PATENT-4,594,734	c 54	N86-28620 *	US-PATENT-4,664,980	c 27	N87-23736 *	US-PATENT-4,757,767	c 18	N88-26398 *
US-PATENT-4,595,399	c 35	N86-29174 *	US-PATENT-4,665,277	c 33	N87-23879 *	US-PATENT-4,758,380	c 23	N88-26404 *
US-PATENT-4,595,548	c 27	N86-29039 *	US-PATENT-4,665,334	c 37	N87-23970 *	US-PATENT-4,761,744	c 25	N88-29002 *
US-PATENT-4,596,626	c 76	N86-28760 *	US-PATENT-4,666,086	c 37	N87-24689 *	US-PATENT-4,762,173	c 34	N88-29132 *
US-PATENT-4,598,007	c 24	N86-28131 *	US-PATENT-4,666,561	c 25	N88-23846 *	US-PATENT-4,762,619	c 31	N88-29052 *
US-PATENT-4,598,427	c 54	N86-28619 *	US-PATENT-4,668,589	c 27	N87-25469 *	US-PATENT-4,763,459	c 37	N88-29180 *
US-PATENT-4,598,428	c 54	N86-29507 *	US-PATENT-4,669,354	c 37	N87-23983 *	US-PATENT-4,763,762	c 37	N88-29181 *
US-PATENT-4,598,981	c 74	N86-28732 *	US-PATENT-4,669,836	c 52	N87-24874 *	US-PATENT-4,765,114	c 18	N88-28958 *
US-PATENT-4,599,001	c 74	N86-29650 *	US-PATENT-4,669,958	c 08	N87-23631 *	US-PATENT-4,765,139	c 35	N88-29151 *
US-PATENT-4,600,299	c 74	N86-32266 *	US-PATENT-4,670,565	c 27	N87-23751 *	US-PATENT-4,765,187	c 35	N88-29150 *
US-PATENT-4,600,301	c 35	N86-32697 *	US-PATENT-4,672,202	c 37	N87-23982 *	US-PATENT-4,765,396	c 34	N88-29133 *
US-PATENT-4,600,769	c 27	N86-31726 *	US-PATENT-4,675,379	c 27	N87-24564 *	US-PATENT-4,766,286	c 37	N88-30131 *
US-PATENT-4,600,840	c 72	N86-33127 *	US-PATENT-4,675,563	c 33	N87-23904 *	US-PATENT-4,766,369	c 35	N88-29149 *
US-PATENT-4,602,081	c 27	N86-32568 *	US-PATENT-4,675,880	c 32	N87-25511 *	US-PATENT-4,766,533	c 60	N88-29310 *
US-PATENT-4,602,509	c 35	N86-32695 *	US-PATENT-4,676,110	c 39	N87-25601 *	US-PATENT-4,766,724	c 09	N88-28939 *
US-PATENT-4,603,061	c 27	N86-31727 *	US-PATENT-4,676,846	c 26	N87-28647 *	US-PATENT-4,767,083	c 05	N88-28914 *
US-PATENT-4,603,306	c 33	N86-32624 *	US-PATENT-4,676,853	c 37	N87-23981 *	US-PATENT-4,767,484	c 35	N88-30108 *
US-PATENT-4,604,038	c 37	N86-32738 *	US-PATENT-4,676,962	c 23	N87-23698 *	US-PATENT-4,767,728	c 27	N88-29040 *
US-PATENT-4,604,181	c 27	N86-32569 *	US-PATENT-4,677,629	c 36	N87-23960 *	US-PATENT-4,769,968	c 31	N89-12786 *
US-PATENT-4,604,844	c 37	N86-32737 *	US-PATENT-4,677,636	c 36	N87-23961 *	US-PATENT-4,770,032	c 35	N89-12841 *
US-PATENT-4,604,903	c 35	N86-32696 *	US-PATENT-4,677,642	c 35	N87-23944 *	US-PATENT-4,770,038	c 35	N89-14407 *
US-PATENT-4,605,155	c 37	N86-32736 *	US-PATENT-4,677,803	c 31	N87-25492 *	US-PATENT-4,770,232	c 35	N89-12048 *
US-PATENT-4,605,303	c 09	N86-32447 *	US-PATENT-4,678,438	c 14	N87-25344 *	US-PATENT-4,770,238	c 34	N89-14392 *
US-PATENT-4,605,424	c 33	N90-20320 *	US-PATENT-4,680,897	c 31	N87-25491 *	US-PATENT-4,770,455	c 37	N89-13785 *
US-PATENT-4,605,946	c 76	N87-13313 *	US-PATENT-4,681-818	c 26	N87-25455 *	US-PATENT-4,771,250	c 32	N88-29076 *
US-PATENT-4,607,193	c 31	N86-32587 *	US-PATENT-4,681,142	c 37	N87-25573 *	US-PATENT-4,771,823	c 31	N89-12785 *
US-PATENT-4,608,452	c 44	N86-32875 *	US-PATENT-4,681,437	c 76	N87-25862 *	US-PATENT-4,772,050	c 37	N89-13786 *
US-PATENT-4,608,821	c 20	N87-16875 *	US-PATENT-4,682,006	c 74	N87-25843 *	US-PATENT-4,772,101	c 74	N89-14078 *
US-PATENT-4,610,736	c 26	N87-14482 *	US-PATENT-4,682,053	c 36	N87-25567 *	US-PATENT-4,772,175	c 18	N89-12621 *
US-PATENT-4,612,072	c 76	N87-15882 *	US-PATENT-4,682,225	c 17	N87-25348 *	US-PATENT-4,772,785	c 74	N89-14077 *
US-PATENT-4,614,428	c 74	N87-14971 *	US-PATENT-4,682,343	c 33	N87-25531 *	US-PATENT-4,772,893	c 32	N89-11961 *
US-PATENT-4,615,637	c 18	N87-14373 *	US-PATENT-4,682,494	c 09	N87-25334 *	US-PATENT-4,773,266	c 71	N89-13236 *
US-PATENT-4,616,793	c 05	N87-14314 *	US-PATENT-4,682,745	c 37	N87-25582 *	US-PATENT-4,773,620	c 05	N89-11738 *
US-PATENT-4,618,215	c 09	N87-14355 *	US-PATENT-4,683,809	c 24	N87-27742 *	US-PATENT-4,774,118	c 27	N89-12741 *
US-PATENT-4,618,380	c 35	N87-14671 *	US-PATENT-4,684,156	c 18	N87-27713 *	US-PATENT-4,774,359	c 23	N89-12667 *
US-PATENT-4,618,652	c 27	N87-15304 *	US-PATENT-4,684,258	c 36	N87-28006 *	US-PATENT-4,774,835	c 02	N89-12551 *
US-PATENT-4,619,142	c 35	N87-14670 *	US-PATENT-4,684,424	c 74	N87-28416 *	US-PATENT-4,775,740	c 27	N89-16042 *
US-PATENT-4,619,423	c 02	N87-16793 *	US-PATENT-4,685,535	c 54	N87-29118 *	US-PATENT-4,776,531	c 02	N89-14224 *
US-PATENT-4,620,898	c 31	N87-21160 *	US-PATENT-4,687,048	c 34	N87-28867 *	US-PATENT-4,776,541	c 35	N89-15379 *
US-PATENT-4,621,492	c 20	N87-14420 *	US-PATENT-4,687,444	c 82	N87-29372 *	US-PATENT-4,777,656	c 32	N89-14374 *
US-PATENT-4,622,182	c 27	N87-14515 *	US-PATENT-4,687,964	c 33	N87-28832 *	US-PATENT-4,777,823	c 35	N89-14422 *
US-PATENT-4,623,255	c 33	N87-14594 *	US-PATENT-4,688,422	c 35	N87-28884 *	US-PATENT-4,778,268	c 52	N89-16256 *
US-PATENT-4,624,142	c 32	N87-14559 *	US-PATENT-4,689,188	c 27	N87-28656 *	US-PATENT-4,779,222	c 33	N89-14384 *
US-PATENT-4,624,561	c 35	N87-14669 *	US-PATENT-4,689,421	c 23	N87-28605 *	US-PATENT-4,779,428	c 31	N89-14351 *
US-PATENT-4,624,888	c 27	N87-14516 *	US-PATENT-4,689,522	c 33	N87-28831 *	US-PATENT-4,780,276	c 26	N89-14303 *
US-PATENT-4,626,046	c 37	N87-17034 *	US-PATENT-4,690,353	c 33	N87-28833 *	US-PATENT-4,781,326	c 09	N89-25242 *
US-PATENT-4,626,593	c 27	N87-16908 *	US-PATENT-4,695,610	c 27	N87-28657 *	US-PATENT-4,781,993	c 27	N89-29538 *
US-PATENT-4,629,147	c 07	N87-16828 *	US-PATENT-4,696,808	c 76	N87-29360 *	US-PATENT-4,783,822	c 54	N89-29953 *
US-PATENT-4,631,352	c 44	N87-17399 *	US-PATENT-4,697,425	c 31	N88-14223 *	US-PATENT-4,783,994	c 35	N89-14423 *
US-PATENT-4,631,538	c 17	N87-16863 *	US-PATENT-4,697,922	c 36	N88-14350 *	US-PATENT-4,786,168	c 33	N89-14385 *
US-PATENT-4,632,548	c 36	N87-17026 *	US-PATENT-4,698,028	c 33	N88-14270 *	US-PATENT-4,786,271	c 27	N89-14337 *
US-PATENT-4,633,060	c 74	N87-17493 *	US-PATENT-4,698,484	c 37	N88-14362 *	US-PATENT-4,790,026	c 60	N89-26400 *
US-PATENT-4,633,060	c 74	N87-25843 *	US-PATENT-4,698,518	c 33	N88-24862 *	US-PATENT-4,798,433	c 74	N89-25689 *
US-PATENT-4,634,191	c 37	N87-17038 *	US-PATENT-4,698,723	c 03	N88-14083 *	US-PATENT-4,800,756	c 71	N90-12289 *
US-PATENT-4,634,759	c 27	N87-16909 *	US-PATENT-4,704,168	c 26	N88-14179 *	US-PATENT-4,805,368	c 18	N89-28554 *
US-PATENT-4,634,759	c 23	N88-24692 *	US-PATENT-4,704,197	c 25	N88-24732 *	US-PATENT-4,807,834	c 18	N89-25266 *
US-PATENT-4,635,663	c 37	N87-17035 *	US-PATENT-4,706,387	c 37	N88-14361 *	US-PATENT-4,809,003	c 32	N89-28672 *
US-PATENT-4,635,773	c 37	N87-17037 *	US-PATENT-4,706,910	c 02	N88-14071 *	US-PATENT-4,809,441	c 37	N89-28831 *
US-PATENT-4,637,181	c 31	N87-16918 *	US-PATENT-4,708,280	c 37	N88-14359 *	US-PATENT-4,809,936	c 18	N89-28553 *
US-PATENT-4,637,447	c 37	N87-17036 *	US-PATENT-4,708,305	c 08	N88-23809 *	US-PATENT-4,810,094	c 35	N89-26202 *
US-PATENT-4,638,083	c 27	N87-16907 *	US-PATENT-4,708,330	c 37	N88-14360 *	US-PATENT-4,810,438	c 27	N89-29539 *
US-PATENT-4,641,499	c 31	N87-21159 *	US-PATENT-4,709,252	c 33	N88-14271 *	US-PATENT-4,811,033	c 32	N89-25363 *
US-PATENT-4,642,523	c 33	N87-21234 *	US-PATENT-4,710,618	c 44	N88-14492 *	US-PATENT-4,815,279	c 20	N89-25279 *
US-PATENT-4,644,234	c 33	N87-21233 *	US-PATENT-4,711,697	c 76	N88-14835 *	US-PATENT-4,818,868	c 72	N89-29169 *
US-PATENT-4,644,306	c 33	N87-22895 *	US-PATENT-4,711,857	c 76	N88-14836 *	US-PATENT-4,819,064	c 32	N89-28676 *
US-PATENT-4,644,794	c 71	N87-21652 *	US-PATENT-4,711,932	c 27	N88-18725 *	US-PATENT-4,819,438	c 25	N90-11824 *
US-PATENT-4,645,358	c 32	N87-21206 *	US-PATENT-4,713,275	c 24	N88-18628 *	US-PATENT-4,820,488	c 26	N89-28621 *
US-PATENT-4,646,860	c 85	N87-21755 *	US-PATENT-4,718,281	c 35	N88-23967 *	US-PATENT-4,821,907	c 31	N89-29578 *
US-PATENT-4,647,144	c 74	N87-21679 *	US-PATENT-4,720,139	c 37	N88-23982 *	US-PATENT-4,823,074	c 33	N89-29681 *
US-PATENT-4,647,615	c 27	N87-22845 *	US-PATENT-4,723,086	c 33	N88-23942 *	US-PATENT-4,823,299	c 33	N89-28713 *
US-PATENT-4,648,133	c 32	N87-21207 *	US-PATENT-4,723,800	c 37	N88-23979 *	US-PATENT-4,831,818	c 20	N90-19298 *
US-PATENT-4,648,267	c 34	N87-21255 *	US-PATENT-4,725,106	c 54	N88-24163 *	US-PATENT-4,833,233	c 52	N90-20616 *
US-PATENT-4,648,569	c 08	N87-20999 *	US-PATENT-4,726,890	c 76	N88-24543 *	US-PATENT-4,836,035	c 35	N90-17117 *
US-PATENT-4,649,189	c 27	N87-21112 *	US-PATENT-4,727,751	c 02	N88-23759 *	US-PATENT-4,836,707	c 37	N90-17154 *
US-PATENT-4,649,273	c 72	N87-21661 *	US-PATENT-4,728,257	c 37	N88-23978 *	US-PATENT-4,837,300	c 27	N90-16950 *
US-PATENT-4,649,278	c 72	N87-21660 *	US-PATENT-4,731,211	c 27	N88-23894 *	US-PATENT-4,838,346	c 34	N90-20323 *
US-PATENT-4,649,287	c 44	N87-21410 *	US-PATENT-4,732,353	c 08	N88-23808 *	US-PATENT-4,839,046	c 51	N91-14703 *

US-PATENT-4,839,121	c 31	N90-19425 *	US-PATENT-4,921,293	c 37	N91-14616 *	US-PATENT-5,012,062	c 27	N91-25296 *
US-PATENT-4,839,330	c 25	N90-20154 *	US-PATENT-4,923,545	c 24	N90-25197 *	US-PATENT-5,014,340	c 33	N91-31530 *
US-PATENT-4,839,489	c 37	N90-19602 *	US-PATENT-4,923,741	c 54	N90-25498 *	US-PATENT-5,014,917	c 37	N91-27560 *
US-PATENT-4,840,394	c 37	N90-17153 *	US-PATENT-4,923,751	c 24	N90-25196 *	US-PATENT-5,015,825	c 14	N91-27175 *
US-PATENT-4,840,496	c 36	N90-17132 *	US-PATENT-4,924,053	c 31	N90-26168 *	US-PATENT-5,015,851	c 72	N91-27936 *
US-PATENT-4,842,223	c 18	N90-19278 *	US-PATENT-4,925,297	c 36	N90-25340 *	US-PATENT-5,015,963	c 33	N91-26438 *
US-PATENT-4,842,224	c 18	N90-16860 *	US-PATENT-4,926,481	c 60	N90-25583 *	US-PATENT-5,016,418	c 18	N91-27199 *
US-PATENT-4,843,123	c 27	N90-16949 *	US-PATENT-4,926,694	c 24	N91-14430 *	US-PATENT-5,017,549	c 14	N92-15081 *
US-PATENT-4,843,328	c 32	N90-17005 *	US-PATENT-4,927,326	c 37	N91-14608 *	US-PATENT-5,017,883	c 32	N91-27439 *
US-PATENT-4,843,439	c 35	N90-17118 *	US-PATENT-4,928,027	c 27	N91-14489 *	US-PATENT-5,018,688	c 05	N91-27156 *
US-PATENT-4,843,440	c 33	N90-20282 *	US-PATENT-4,932,270	c 35	N91-17350 *	US-PATENT-5,019,176	c 44	N91-27614 *
US-PATENT-4,843,554	c 09	N90-20096 *	US-PATENT-4,932,610	c 34	N91-14562 *	US-PATENT-5,019,470	c 33	N91-27478 *
US-PATENT-4,845,167	c 23	N90-19300 *	US-PATENT-4,932,688	c 37	N91-14613 *	US-PATENT-5,019,533	c 76	N91-28014 *
US-PATENT-4,845,728	c 60	N90-21525 *	US-PATENT-4,932,777	c 09	N91-14356 *	US-PATENT-5,020,739	c 02	N91-27139 *
US-PATENT-4,845,953	c 09	N91-14357 *	US-PATENT-4,932,806	c 37	N91-17387 *	US-PATENT-5,020,742	c 03	N91-31113 *
US-PATENT-4,846,884	c 31	N90-20254 *	US-PATENT-4,932,807	c 37	N91-15544 *	US-PATENT-5,020,743	c 18	N91-27201 *
US-PATENT-4,847,502	c 35	N90-20351 *	US-PATENT-4,933,558	c 74	N91-14835 *	US-PATENT-5,020,774	c 34	N91-27504 *
US-PATENT-4,847,837	c 62	N90-19776 *	US-PATENT-4,933,936	c 62	N91-14772 *	US-PATENT-5,020,876	c 18	N91-27200 *
US-PATENT-4,848,153	c 34	N90-19534 *	US-PATENT-4,936,146	c 34	N91-31596 *	US-PATENT-5,021,065	c 54	N91-32795 *
US-PATENT-4,848,987	c 29	N90-20236 *	US-PATENT-4,936,309	c 52	N91-14709 *	US-PATENT-5,021,518	c 27	N91-31307 *
US-PATENT-4,849,033	c 76	N90-19884 *	US-PATENT-4,936,869	c 28	N91-14495 *	US-PATENT-5,021,729	c 33	N91-27479 *
US-PATENT-4,849,903	c 33	N90-19492 *	US-PATENT-4,937,317	c 27	N91-15403 *	US-PATENT-5,023,034	c 37	N91-27562 *
US-PATENT-4,851,071	c 31	N90-19427 *	US-PATENT-4,937,356	c 23	N91-14419 *	US-PATENT-5,024,288	c 71	N91-27913 *
US-PATENT-4,851,491	c 27	N90-21177 *	US-PATENT-4,937,891	c 54	N91-14723 *	US-PATENT-5,025,455	c 32	N91-25318 *
US-PATENT-4,851,544	c 23	N90-21118 *	US-PATENT-4,942,632	c 54	N91-14724 *	US-PATENT-5,026,008	c 34	N91-25380 *
US-PATENT-4,852,578	c 52	N90-21519 *	US-PATENT-4,945,012	c 33	N91-14538 *	US-PATENT-5,026,650	c 51	N91-30667 *
US-PATENT-4,855,274	c 25	N90-20180 *	US-PATENT-4,945,549	c 32	N91-14523 *	US-PATENT-5,027,182	c 74	N91-25841 *
US-PATENT-4,858,717	c 31	N90-21215 *	US-PATENT-4,946,122	c 37	N91-14617 *	US-PATENT-5,027,860	c 31	N91-25305 *
US-PATENT-4,858,857	c 18	N90-20126 *	US-PATENT-4,946,421	c 37	N91-17388 *	US-PATENT-5,029,216	c 35	N91-27522 *
US-PATENT-4,858,979	c 37	N90-20408 *	US-PATENT-4,946,890	c 27	N91-15402 *	US-PATENT-5,029,220	c 74	N91-25840 *
US-PATENT-4,860,014	c 32	N90-20280 *	US-PATENT-4,947,408	c 32	N92-21712 *	US-PATENT-5,031,089	c 62	N91-25693 *
US-PATENT-4,860,074	c 35	N90-21358 *	US-PATENT-4,952,811	c 35	N91-14588 *	US-PATENT-5,031,234	c 74	N91-27957 *
US-PATENT-4,860,149	c 33	N90-20320 *	US-PATENT-4,952,836	c 76	N91-14872 *	US-PATENT-5,031,627	c 71	N91-27914 *
US-PATENT-4,860,295	c 36	N91-17360 #	US-PATENT-4,954,864	c 33	N91-14551 *	US-PATENT-5,031,689	c 31	N91-27385 *
US-PATENT-4,860,669	c 31	N91-15423 *	US-PATENT-4,955,653	c 37	N91-14615 *	US-PATENT-5,032,045	c 37	N91-27561 *
US-PATENT-4,860,971	c 03	N91-15142 *	US-PATENT-4,956,996	c 35	N91-15511 *	US-PATENT-5,034,187	c 24	N91-27244 *
US-PATENT-4,860,975	c 18	N91-14374 *	US-PATENT-4,957,139	c 34	N91-14563 *	US-PATENT-5,038,089	c 63	N91-31885 *
US-PATENT-4,861,416	c 76	N91-15898 *	US-PATENT-4,957,357	c 35	N91-14591 *	US-PATENT-5,038,473	c 37	N91-31655 *
US-PATENT-4,863,118	c 05	N90-20079 *	US-PATENT-4,957,661	c 24	N91-15320 *	US-PATENT-5,038,693	c 24	N91-31236 *
US-PATENT-4,863,553	c 76	N90-20896 *	US-PATENT-4,959,084	c 45	N91-14662 *	US-PATENT-5,040,886	c 74	N92-16810 *
US-PATENT-4,864,050	c 23	N90-20133 *	US-PATENT-4,959,656	c 04	N91-14321 *	US-PATENT-5,041,881	c 33	N92-16197 *
US-PATENT-4,864,865	c 37	N90-20409 *	US-PATENT-4,962,330	c 71	N91-14808 *	US-PATENT-5,044,063	c 37	N91-31656 *
US-PATENT-4,864,910	c 37	N90-21390 *	US-PATENT-4,963,052	c 37	N91-14614 *	US-PATENT-5,046,395	c 37	N91-32498 *
US-PATENT-4,865,114	c 31	N90-21216 *	US-PATENT-4,964,300	c 19	N91-14412 *	US-PATENT-5,047,686	c 74	N91-31950 *
US-PATENT-4,867,394	c 05	N90-20078 *	US-PATENT-4,964,303	c 71	N91-14807 *	US-PATENT-5,047,700	c 33	N91-31528 *
US-PATENT-4,868,818	c 60	N90-21527 *	US-PATENT-4,964,453	c 26	N91-14462 *	US-PATENT-5,047,9421-CU	c 04	N91-31120 *
US-PATENT-4,873,498	c 33	N90-23635 *	US-PATENT-4,964,722	c 35	N91-15512 *	US-PATENT-5,048,023	c 60	N91-31810 *
US-PATENT-4,873,990	c 35	N90-23706 *	US-PATENT-4,965,429	c 31	N91-14508 *	US-PATENT-5,048,973	c 35	N91-31608 *
US-PATENT-4,877,082	c 31	N90-23587 *	US-PATENT-4,965,743	c 61	N91-14741 *	US-PATENT-5,049,492	c 51	N91-31755 *
US-PATENT-4,877,689	c 24	N90-23480 *	US-PATENT-4,966,823	c 33	N91-14536 *	US-PATENT-5,049,539	c 33	N91-31529 *
US-PATENT-4,879,446	c 31	N90-23586 *	US-PATENT-4,971,139	c 34	N91-21473 *	US-PATENT-5,050,789	c 31	N91-31476 *
US-PATENT-4,883,116	c 27	N90-23541 *	US-PATENT-4,971,474	c 37	N91-14610 *	US-PATENT-5,050,819	c 05	N91-31140 *
US-PATENT-4,885,116	c 25	N90-23497 *	US-PATENT-4,973,840	c 35	N91-14587 *	US-PATENT-5,051,559	c 37	N91-32508 *
US-PATENT-4,886,896	c 23	N90-23475 *	US-PATENT-4,973,914	c 33	N91-14550 *	US-PATENT-5,052,807	c 74	N91-32922 *
US-PATENT-4,889,912	c 27	N90-23545 *	US-PATENT-4,973,936	c 33	N91-14537 *	US-PATENT-5,052,817	c 25	N91-32196 *
US-PATENT-4,890,252	c 33	N90-23636 *	US-PATENT-4,974,181	c 17	N91-14371 *	US-PATENT-5,053,778	c 43	N91-32546 *
US-PATENT-4,890,915	c 76	N90-24150 *	US-PATENT-4,974,230	c 36	N91-15528 *	US-PATENT-5,054,287	c 20	N92-10054 *
US-PATENT-4,891,591	c 27	N90-23544 *	US-PATENT-4,975,672	c 33	N91-14539 *	US-PATENT-5,055,240	c 31	N91-32240 *
US-PATENT-4,894,554	c 37	N90-23742 *	US-PATENT-4,975,704	c 43	N91-14642 *	US-PATENT-5,056,037	c 62	N91-32852 *
US-PATENT-4,895,430	c 35	N91-14590 *	US-PATENT-4,977,395	c 37	N91-14607 *	US-PATENT-5,056,156	c 27	N92-10091 *
US-PATENT-4,895,915	c 23	N91-14418 *	US-PATENT-4,980,126	c 24	N91-17145 *	US-PATENT-5,056,361	c 35	N92-10185 *
US-PATENT-4,895,972	c 27	N90-23546 *	US-PATENT-4,980,626	c 37	N91-21542 *	US-PATENT-5,057,338	c 24	N92-10070 *
US-PATENT-4,896,533	c 35	N90-23707 *	US-PATENT-4,980,636	c 33	N91-14552 *	US-PATENT-5,057,473	c 25	N92-10073 *
US-PATENT-4,899,356	c 38	N90-23756 *	US-PATENT-4,981,345	c 37	N91-21545 *	US-PATENT-5,057,917	c 32	N92-10128 *
US-PATENT-4,902,354	c 09	N90-23415 *	US-PATENT-4,984,457	c 35	N91-21495 *	US-PATENT-5,058,281	c 35	N92-10186 *
US-PATENT-4,902,450	c 34	N90-23700 *	US-PATENT-4,986,132	c 37	N91-21540 *	US-PATENT-5,058,506	c 37	N91-32514 *
US-PATENT-4,902,647	c 72	N91-14813 *	US-PATENT-4,987,339	c 76	N91-21911 *	US-PATENT-5,058,591	c 52	N92-11621 *
US-PATENT-4,902,769	c 23	N91-27220 *	US-PATENT-4,988,623	c 51	N91-21700 *	US-PATENT-5,058,929	c 37	N92-10197 *
US-PATENT-4,904,538	c 24	N90-23493 *	US-PATENT-4,989,497	c 35	N91-21494 *	US-PATENT-5,059,409	c 27	N92-10090 *
US-PATENT-4,907,233	c 17	N90-21061 *	US-PATENT-4,990,312	c 09	N91-21157 *	US-PATENT-5,059,581	c 76	N92-10681 *
US-PATENT-4,909,133	c 37	N90-22042 *	US-PATENT-4,990,739	c 75	N91-25875 *	US-PATENT-5,061,112	c 31	N92-16161 *
US-PATENT-4,909,313	c 34	N90-21999 *	US-PATENT-4,990,922	c 43	N91-21621 *	US-PATENT-5,061,783	c 25	N92-16043 *
US-PATENT-4,909,436	c 35	N91-21496 *	US-PATENT-4,990,988	c 33	N91-21434 *	US-PATENT-5,062,693	c 74	N92-16808 *
US-PATENT-4,909,933	c 29	N90-21209 *	US-PATENT-4,991,181	c 25	N91-21270 *	US-PATENT-5,062,694	c 36	N92-16290 *
US-PATENT-4,910,233	c 27	N90-21198 *	US-PATENT-4,991,788	c 18	N91-21222 *	US-PATENT-5,063,734	c 20	N92-15122 *
US-PATENT-4,910,396	c 74	N90-22383 *	US-PATENT-4,995,272	c 14	N91-21176 *	US-PATENT-5,063,747	c 31	N92-15203 *
US-PATENT-4,911,062	c 24	N90-21822 *	US-PATENT-4,995,697	c 74	N91-21871 *	US-PATENT-5,063,789	c 34	N92-16241 *
US-PATENT-4,911,738	c 35	N90-22024 *	US-PATENT-4,997,158	c 37	N91-21541 *	US-PATENT-5,064,111	c 31	N92-16162 *
US-PATENT-4,911,890	c 35	N90-22025 *	US-PATENT-4,998,842	c 18	N91-21221 *	US-PATENT-5,064,151	c 18	N92-21999 *
US-PATENT-4,912,082	c 25	N90-23517 *	US-PATENT-4,999,553	c 37	N91-21544 *	US-PATENT-5,064,868	c 27	N92-16123 *
US-PATENT-4,912,238	c 23	N91-17141 *	US-PATENT-5,000,033	c 14	N91-21175 *	US-PATENT-5,065,236	c 74	N92-16809 *
US-PATENT-4,912,386	c 33	N90-21951 *	US-PATENT-5,000,416	c 37	N91-21543 *	US-PATENT-5,066,337	c 44	N92-16457 *
US-PATENT-4,912,411	c 26	N90-21170 *	US-PATENT-5,001,924	c 35	N91-21493 *	US-PATENT-5,066,625	c 27	N92-16122 *
US-PATENT-4,912,414	c 35	N90-22023 *	US-PATENT-5,002,890	c 51	N91-21701 *	US-PATENT-5,066,748	c 27	N92-16121 *
US-PATENT-4,913,225	c 31	N91-15424 *	US-PATENT-5,003,211	c 70	N91-21824 *	US-PATENT-5,067,019	c 60	N92-16563 *
US-PATENT-4,913,534	c 35	N91-13694 *	US-PATENT-5,003,235	c 37	N91-21539 *	US-PATENT-5,067,388	c 18	N92-15114 *
US-PATENT-4,916,954	c 35	N90-23712 *	US-PATENT-5,004,575	c 24	N91-25200 *	US-PATENT-5,070,729	c 02	N92-21588 *
US-PATENT-4,917,302	c 37	N90-23751 *	US-PATENT-5,005,147	c 32	N91-25317 *	US-PATENT-5,070,964	c 54	N92-16559 *
US-PATENT-4,917,332	c 05	N91-14345 *	US-PATENT-5,005,457	c 54	N91-26747 *	US-PATENT-5,071,091	c 16	N92-16007 *
US-PATENT-4,917,333	c 05	N90-23390 *	US-PATENT-5,005,787	c 54	N91-31803 #	US-PATENT-5,072,133	c 33	N92-16196 *
US-PATENT-4,917,940	c 76	N90-24168 *	US-PATENT-5,005,954	c 74	N91-26918 *	US-PATENT-5,072,379	c 62	N92-15620 #
US-PATENT-4,918,652	c 35	N90-23713 *	US-PATENT-5,007,068	c 32	N91-25316 *	US-PATENT-5,073,412	c 24	N92-16025 *
US-PATENT-4,919,852	c 27	N90-23566 *	US-PATENT-5,007,983	c 25	N91-31258 *	US-PATENT-5,075,243	c 24	N92-18561 *
US-PATENT-4,919,899	c 76	N90-24169 *	US-PATENT-5,008,061	c 24	N91-25199 *	US-PATENT-5,076,103	c 35	N92-21586 *
US-PATENT-4,920,487	c 62	N91-14769 *	US-PATENT-5,011,907	c 27	N91-27372 *	US-PATENT-5,076,590	c 37	N92-16318 *
US-PATENT-4,921,212	c 37	N91-14609 *	US-PATENT-5,011,955	c 23	N91-25185 *	US-PATENT-5,077,015	c 34	N92-16243 *

REPORT NUMBER INDEX

US-PATENT-5,103,941

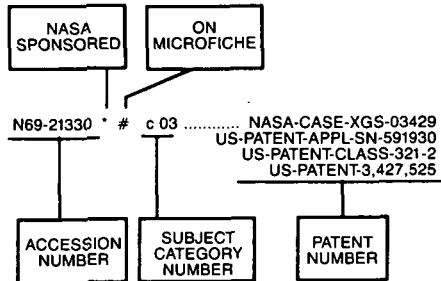
US-PATENT-5,077,622	c 74	N92-16811 *
US-PATENT-5,079,082	c 24	N92-16026 *
US-PATENT-5,079,460	c 33	N92-15331 *
US-PATENT-5,080,286	c 34	N92-21724 *
US-PATENT-5,080,490	c 74	N92-22034 *
US-PATENT-5,080,724	c 44	N92-22037 *
US-PATENT-5,080,977	c 24	N92-21725 *
US-PATENT-5,081,198	c 27	N92-22044 *
US-PATENT-5,082,293	c 37	N92-22043 *
US-PATENT-5,083,378	c 35	N92-22039 *
US-PATENT-5,084,645	c 33	N92-22042 *
US-PATENT-5,085,073	c 35	N92-21710 *
US-PATENT-5,086,204	c 35	N92-22038 *
US-PATENT-5,086,400	c 37	N92-22036 *
US-PATENT-5,086,828	c 54	N92-21589 *
US-PATENT-5,087,088	c 37	N92-21500 *
US-PATENT-5,088,665	c 05	N92-21587 *
US-PATENT-5,090,857	c 37	N92-21726 *
US-PATENT-5,092,956	c 76	N92-21499 *
US-PATENT-5,094,974	c 76	N92-22035 *
US-PATENT-5,096,340	c 35	N92-21723 *
US-PATENT-5,098,961	c 27	N92-21711 *
US-PATENT-5,099,294	c 76	N92-22041 *
US-PATENT-5,100,694	c 76	N92-22040 *
US-PATENT-5,101,361	c 32	N92-22033 *
US-PATENT-5,102,150	c 37	N92-21727 *
US-PATENT-5,103,941	c 37	N92-21728 *

ACCESSION NUMBER INDEX

NASA PATENT ABSTRACTS BIBLIOGRAPHY Section 2

JULY 1992

Typical Accession Number Index Listing



Listings in this index are arranged numerically by accession number. The category number indicates the category in Section 1 (Abstracts) in which the citation is located. The accession number denotes the number by which the citation is identified within the subject category. An asterisk (*) indicates that the item is a NASA report. A pound sign (#) indicates that the item is available on microfiche.

N69-21313* # c 09 NASA-CASE-XAR-03786
N69-21313* # c 09 US-PATENT-APPL-SN-476763
US-PATENT-CLASS-310-4
US-PATENT-3,423,608
N69-21330* # c 03 NASA-CASE-XGS-03429
US-PATENT-APPL-SN-591930
US-PATENT-CLASS-321-2
US-PATENT-3,427,525
N69-21337* # c 03 NASA-CASE-XNP-04264
US-PATENT-APPL-SN-447933
US-PATENT-CLASS-136-146
US-PATENT-3,421,948
N69-21362* # c 15 NASA-CASE-XLE-05130
US-PATENT-APPL-SN-545224
US-PATENT-CLASS-277-25
US-PATENT-3,421,768
N69-21363* # c 14 NASA-CASE-XGS-03865
US-PATENT-APPL-SN-478491
US-PATENT-CLASS-33-174
US-PATENT-3,419,964
N69-21380* # c 05 NASA-CASE-XLA-08491
US-PATENT-APPL-SN-619520
US-PATENT-CLASS-244-4
US-PATENT-3,420,471
N69-21460* # c 15 NASA-CASE-XKS-04614
US-PATENT-APPL-SN-574280
US-PATENT-CLASS-117-201
US-PATENT-3,420,704
N69-21465* # c 15 NASA-CASE-XLA-08645
US-PATENT-APPL-SN-635970
US-PATENT-CLASS-62-93
US-PATENT-3,420,069
N69-21466* # c 12 NASA-CASE-XLE-03512
US-PATENT-APPL-SN-462762
US-PATENT-CLASS-137-81.5
US-PATENT-3,420,253
N69-21467* # c 09 NASA-CASE-XMS-06949
US-PATENT-APPL-SN-635328
US-PATENT-CLASS-346-44
US-PATENT-3,422,440
N69-21468* # c 09 NASA-CASE-XNP-05612
US-PATENT-APPL-SN-562934
US-PATENT-CLASS-307-106
US-PATENT-3,422,278
N69-21469* # c 03 NASA-CASE-XMS-04843
US-PATENT-APPL-SN-545229
US-PATENT-CLASS-137-624.14
US-PATENT-3,421,549
N69-21470* # c 09 NASA-CASE-XLA-01288
US-PATENT-APPL-SN-460876
US-PATENT-CLASS-339-150
US-PATENT-3,421,134
N69-21471* # c 15 NASA-CASE-XMS-03537
US-PATENT-APPL-SN-468655
US-PATENT-CLASS-219-121

US-PATENT-3,420,978
N69-21472* # c 15 NASA-CASE-XGS-02437
US-PATENT-APPL-SN-487344
US-PATENT-CLASS-317-157.5
US-PATENT-3,421,053
N69-21473* # c 05 NASA-CASE-XAR-01547
US-PATENT-APPL-SN-391343
US-PATENT-CLASS-128-2.08
US-PATENT-3,420,225
N69-21539* # c 03 NASA-CASE-XGS-01395
US-PATENT-APPL-SN-545535
US-PATENT-CLASS-174-72
US-PATENT-3,422,213
N69-21540* # c 11 NASA-CASE-XLA-02704
US-PATENT-APPL-SN-469011
US-PATENT-CLASS-73-67.2
US-PATENT-3,421,363
N69-21541* # c 14 NASA-CASE-XNP-09752
US-PATENT-APPL-SN-640460
US-PATENT-CLASS-317-246
US-PATENT-3,422,324
N69-21542* # c 09 NASA-CASE-XLE-03778
US-PATENT-APPL-SN-628247
US-PATENT-CLASS-174-18
US-PATENT-3,420,945
N69-21543* # c 09 NASA-CASE-XGS-04994
US-PATENT-APPL-SN-619907
US-PATENT-CLASS-331-4
US-PATENT-3,421,105
N69-21922* # c 15 NASA-CASE-XHO-03903
US-PATENT-APPL-SN-560967
US-PATENT-CLASS-23-208
US-PATENT-3,423,179
N69-21923* # c 14 NASA-CASE-XNP-07478
US-PATENT-APPL-SN-605097
US-PATENT-CLASS-175-323
US-PATENT-3,421,591
N69-21924* # c 15 NASA-CASE-XMS-05894-1
US-PATENT-APPL-SN-685766
US-PATENT-CLASS-137-491
US-PATENT-3,421,541
N69-21925* # c 05 NASA-CASE-XMS-02872
US-PATENT-APPL-SN-422864
US-PATENT-CLASS-128-2.06
US-PATENT-3,420,223
N69-21926* # c 09 NASA-CASE-XNP-06032
US-PATENT-APPL-SN-590146
US-PATENT-CLASS-324-158
US-PATENT-3,422,354
N69-21927* # c 09 NASA-CASE-XMS-07846-1
US-PATENT-APPL-SN-694247
US-PATENT-CLASS-339-91
US-PATENT-3,422,390
N69-21928* # c 08 NASA-CASE-XNP-09785
US-PATENT-APPL-SN-599975
US-PATENT-CLASS-340-172.5
US-PATENT-3,422,403
N69-21929* # c 25 NASA-CASE-XNP-07481
US-PATENT-APPL-SN-563650
US-PATENT-CLASS-310-11
US-PATENT-3,422,291
N69-23185* # c 15 NASA-CASE-XNP-05975
US-PATENT-APPL-SN-570097
US-PATENT-CLASS-239-416
US-PATENT-3,421,700
N69-23190* # c 15 NASA-CASE-NPO-10309
US-PATENT-APPL-SN-574282
US-PATENT-APPL-SN-700985
US-PATENT-CLASS-62-6
US-PATENT-3,421,331
N69-23191* # c 14 NASA-CASE-XLE-10529
US-PATENT-APPL-SN-603396
US-PATENT-CLASS-317-234
US-PATENT-3,421,056
N69-23192* # c 05 NASA-CASE-XMS-06761
US-PATENT-APPL-SN-575475
US-PATENT-CLASS-128-283
US-PATENT-3,421,506
N69-24257* # c 14 NASA-CASE-XMS-04917
US-PATENT-APPL-SN-574283
US-PATENT-CLASS-73-198
US-PATENT-3,425,276
N69-24266* # c 15 NASA-CASE-XMS-03700
US-PATENT-APPL-SN-617783
US-PATENT-CLASS-314-129
US-PATENT-3,428,847
N69-24267* # c 03 NASA-CASE-XGS-04531
US-PATENT-APPL-SN-590141
US-PATENT-CLASS-136-89
US-PATENT-3,437,527
N69-24317* # c 09 NASA-CASE-XGS-04999
US-PATENT-APPL-SN-519395
US-PATENT-CLASS-307-268
US-PATENT-3,426,219
N69-24318* # c 09 NASA-CASE-XGS-05003
US-PATENT-APPL-SN-576797
US-PATENT-CLASS-317-235
US-PATENT-3,430,115
N69-24319* # c 15 NASA-CASE-XNP-09227
US-PATENT-APPL-SN-632164
US-PATENT-CLASS-313-44
US-PATENT-3,426,230
N69-24320* # c 15 NASA-CASE-XGS-03864
US-PATENT-APPL-SN-577114
US-PATENT-CLASS-136-133
US-PATENT-3,427,205
N69-24321* # c 11 NASA-CASE-XLA-03271
US-PATENT-APPL-SN-482313
US-PATENT-CLASS-350-310
US-PATENT-3,427,097
N69-24322* # c 15 NASA-CASE-XMS-01108
US-PATENT-APPL-SN-432032
US-PATENT-CLASS-156-242
US-PATENT-3,425,885
N69-24323* # c 07 NASA-CASE-XGS-02816
US-PATENT-APPL-SN-521998
US-PATENT-CLASS-333-73
US-PATENT-3,437,959
N69-24324* # c 09 NASA-CASE-XGS-02171
US-PATENT-APPL-SN-590159
US-PATENT-CLASS-325-446
US-PATENT-3,437,935
N69-24329* # c 09 NASA-CASE-XNP-04183
US-PATENT-APPL-SN-546142
US-PATENT-CLASS-179-100.2
US-PATENT-3,428,761
N69-24330* # c 09 NASA-CASE-XMS-05307
US-PATENT-APPL-SN-516154
US-PATENT-CLASS-330-29
US-PATENT-3,428,910
N69-24331* # c 14 NASA-CASE-XNP-03930
US-PATENT-APPL-SN-526665
US-PATENT-CLASS-250-237
US-PATENT-3,435,246
N69-24332* # c 23 NASA-CASE-XNP-02340
US-PATENT-APPL-SN-439490
US-PATENT-CLASS-350-1
US-PATENT-3,427,089
N69-24333* # c 09 NASA-CASE-XNP-09225
US-PATENT-APPL-SN-640785
US-PATENT-CLASS-340-172.5
US-PATENT-3,431,559
N69-24334* # c 07 NASA-CASE-XGS-01110
US-PATENT-APPL-SN-526664
US-PATENT-CLASS-333-8
US-PATENT-3,428,919
N69-25146* # c 03 NASA-CASE-XGS-04808
US-PATENT-APPL-SN-640781
US-PATENT-CLASS-321-2
US-PATENT-3,437,903
N69-25147* # c 17 NASA-CASE-XLE-10466
US-PATENT-APPL-SN-644448
US-PATENT-CLASS-219-411
US-PATENT-3,427,435
N69-27422* # c 09 NASA-CASE-XLA-04980
US-PATENT-APPL-SN-577548
US-PATENT-CLASS-317-234
US-PATENT-3,432,730
N69-27423* # c 14 NASA-CASE-XAC-02407
US-PATENT-APPL-SN-469013
US-PATENT-CLASS-324-43
US-PATENT-3,437,919
N69-27431* # c 14 NASA-CASE-XMF-01483
US-PATENT-APPL-SN-635325
US-PATENT-CLASS-339-17
US-PATENT-3,430,182

ACCESSION

N69-27432* #	c 14	NASA-CASE-XGS-08266 US-PATENT-APPL-SN-628248 US-PATENT-CLASS-250-203 US-PATENT-3,433,961	US-PATENT-CLASS-339-95 US-PATENT-3,458,851	US-PATENT-CLASS-250-49.5 US-PATENT-3,446,960
N69-27459* #	c 14	NASA-CASE-XMS-05909-1 US-PATENT-APPL-SN-685764 US-PATENT-CLASS-136-213 US-PATENT-3,431,149	N69-39735* # c 15 NASA-CASE-XGS-00963 US-PATENT-APPL-SN-494282 US-PATENT-CLASS-161-182 US-PATENT-3,453,172	N69-39983* # c 03 NASA-CASE-XLE-02083 US-PATENT-APPL-SN-568362 US-PATENT-CLASS-310-11 US-PATENT-3,453,462
N69-27460* #	c 07	NASA-CASE-XGS-05582 US-PATENT-APPL-SN-646424 US-PATENT-CLASS-343-854 US-PATENT-3,438,044	N69-39736* # c 07 NASA-CASE-XNP-04180 US-PATENT-APPL-SN-545228 US-PATENT-CLASS-250-203 US-PATENT-3,448,273	N69-39984* # c 09 NASA-CASE-XLA-08507 US-PATENT-APPL-SN-632154 US-PATENT-CLASS-321-11 US-PATENT-3,434,033
N69-27461* #	c 14	NASA-CASE-XLA-03724 US-PATENT-APPL-SN-568071 US-PATENT-CLASS-350-6 US-PATENT-3,437,394	N69-39785* # c 14 NASA-CASE-XKS-03495 US-PATENT-APPL-SN-559351 US-PATENT-CLASS-324-61 US-PATENT-3,426,272	N69-39986* # c 09 NASA-CASE-XMS-05562-1 US-PATENT-APPL-SN-529609 US-PATENT-CLASS-330-2 US-PATENT-3,434,064
N69-27462* #	c 07	NASA-CASE-XMS-05303 US-PATENT-APPL-SN-617022 US-PATENT-CLASS-333-97 US-PATENT-3,428,923	N69-39786* # c 15 NASA-CASE-XGS-04554 US-PATENT-APPL-SN-584072 US-PATENT-CLASS-29-472.9 US-PATENT-3,447,233	N69-39987* # c 09 NASA-CASE-XMS-04215-1 US-PATENT-APPL-SN-605102 US-PATENT-CLASS-307-265 US-PATENT-3,446,992
N69-27463* #	c 09	NASA-CASE-XGS-03095 US-PATENT-APPL-SN-552344 US-PATENT-CLASS-307-222 US-PATENT-3,437,832	N69-39884* # c 25 NASA-CASE-XLE-00690 US-PATENT-APPL-SN-489442 US-PATENT-CLASS-324-33 US-PATENT-3,447,071	N69-39988* # c 12 NASA-CASE-XLE-02624 US-PATENT-APPL-SN-635327 US-PATENT-CLASS-35-49 US-PATENT-3,429,058
N69-27466* #	c 11	NASA-CASE-XNP-04969 US-PATENT-APPL-SN-593604 US-PATENT-CLASS-248-317 US-PATENT-3,430,909	N69-39885* # c 09 NASA-CASE-XMS-04061-1 US-PATENT-APPL-SN-511564 US-PATENT-CLASS-328-116 US-PATENT-3,456,201	N70-10867* # c 15 NASA-CASE-ERC-10208 US-PATENT-APPL-SN-847596
N69-27483* #	c 15	NASA-CASE-XLA-03105 US-PATENT-APPL-SN-529594 US-PATENT-CLASS-263-48 US-PATENT-3,430,937	N69-39888* # c 10 NASA-CASE-XNP-02713 US-PATENT-APPL-SN-528031 US-PATENT-CLASS-307-252 US-PATENT-3,458,726	N70-11148* # c 09 NASA-CASE-ERC-10072 US-PATENT-APPL-SN-845972
N69-27484* #	c 14	NASA-CASE-XLA-04556 US-PATENT-APPL-SN-607608 US-PATENT-CLASS-250-83 US-PATENT-3,433,953	N69-39889* # c 06 NASA-CASE-XLE-07087 US-PATENT-APPL-SN-619521 US-PATENT-CLASS-313-231 US-PATENT-3,447,015	N70-11251* # c 06 NASA-CASE-NPO-10863 US-PATENT-APPL-SN-848322 US-PATENT-CLASS-307-265 US-PATENT-3,446,992
N69-27485* #	c 14	NASA-CASE-XGS-02401 US-PATENT-APPL-SN-502740 US-PATENT-CLASS-250-203 US-PATENT-3,428,812	N69-39890* # c 03 NASA-CASE-XLE-02824 US-PATENT-APPL-SN-487343 US-PATENT-CLASS-310-10 US-PATENT-3,443,128	N70-12616* # c 07 NASA-CASE-MSC-12259-1 US-PATENT-APPL-SN-853763
N69-27486* #	c 14	NASA-CASE-XAC-11225 US-PATENT-APPL-SN-638707 US-PATENT-CLASS-248-18 US-PATENT-3,430,902	N69-39895* # c 18 NASA-CASE-XNP-06508 US-PATENT-APPL-SN-617776 US-PATENT-CLASS-117-21 US-PATENT-3,446,642	N70-20737* # c 09 NASA-CASE-MFS-14741 US-PATENT-APPL-SN-880247
N69-27487* #	c 04	NASA-CASE-XGS-05533 US-PATENT-APPL-SN-568346 US-PATENT-CLASS-195-68 US-PATENT-3,437,560	N69-39896* # c 14 NASA-CASE-XAC-02970 US-PATENT-APPL-SN-447930 US-PATENT-CLASS-250-217 US-PATENT-3,452,872	N70-22192* # c 15 NASA-CASE-XMS-04890-1 US-PATENT-APPL-SN-797057 US-PATENT-CLASS-60-258 US-PATENT-3,490,238
N69-27490* #	c 15	NASA-CASE-XLA-02854 US-PATENT-APPL-SN-598118 US-PATENT-CLASS-285-3 US-PATENT-3,427,047	N69-39897* # c 09 NASA-CASE-XAC-08981 US-PATENT-APPL-SN-634060 US-PATENT-CLASS-317-16 US-PATENT-3,450,946	N70-26819* # c 15 NASA-CASE-LAR-10590-1 US-PATENT-APPL-SN-21732 US-PATENT-CLASS-304-158
N69-27491* #	c 16	NASA-CASE-XGS-04480 US-PATENT-APPL-SN-591007 US-PATENT-CLASS-250-199 US-PATENT-3,433,960	N69-39898* # c 03 NASA-CASE-XLE-01015 US-PATENT-APPL-SN-502746 US-PATENT-CLASS-310-4 US-PATENT-3,446,997	N70-33179* # c 14 NASA-CASE-XMF-00447 US-PATENT-APPL-SN-134479 US-PATENT-CLASS-340-198 US-PATENT-3,041,587
N69-27499* #	c 31	NASA-CASE-XMS-12158-1 US-PATENT-APPL-SN-762936 US-PATENT-CLASS-244-1 US-PATENT-3,439,886	N69-39929* # c 09 NASA-CASE-XNP-09776 US-PATENT-APPL-SN-617779 US-PATENT-CLASS-310-4 US-PATENT-3,446,998	N70-33180* # c 15 NASA-CASE-XLA-00137 US-PATENT-APPL-SN-8203 US-PATENT-CLASS-93-1 US-PATENT-3,010,372
N69-27500* #	c 09	NASA-CASE-XNP-09228 US-PATENT-APPL-SN-584070 US-PATENT-CLASS-307-136 US-PATENT-3,430,063	N69-39935* # c 15 NASA-CASE-XNP-08882 US-PATENT-APPL-SN-640784 US-PATENT-CLASS-220-14 US-PATENT-3,446,387	N70-33181* # c 21 NASA-CASE-XLA-00120 US-PATENT-APPL-SN-853984 US-PATENT-CLASS-250-83.3 US-PATENT-3,038,077
N69-27502* #	c 15	NASA-CASE-XMF-04132 US-PATENT-APPL-SN-640788 US-PATENT-CLASS-220-55 US-PATENT-3,429,477	N69-39936* # c 06 NASA-CASE-XNP-04816 US-PATENT-APPL-SN-578926 US-PATENT-CLASS-73-23.1 US-PATENT-3,443,416	N70-33182* # c 09 NASA-CASE-XAC-00086 US-PATENT-APPL-SN-824755 US-PATENT-CLASS-340-147 US-PATENT-3,059,220
N69-27503* #	c 14	NASA-CASE-XFR-09479 US-PATENT-APPL-SN-653278 US-PATENT-CLASS-73-49.8 US-PATENT-3,433,079	N69-39937* # c 14 NASA-CASE-XNP-09750 US-PATENT-APPL-SN-632162 US-PATENT-CLASS-250-83 US-PATENT-3,456,112	N70-33226* # c 15 NASA-CASE-XLE-00020 US-PATENT-APPL-SN-387332 US-PATENT-CLASS-253-39.15 US-PATENT-3,011,760
N69-27504* #	c 15	NASA-CASE-XNP-09452 US-PATENT-APPL-SN-640789 US-PATENT-CLASS-267-1 US-PATENT-3,430,942	N69-39974* # c 07 NASA-CASE-XGS-05918 US-PATENT-APPL-SN-685497 US-PATENT-CLASS-343-7.5 US-PATENT-3,430,237	N70-33241* # c 28 NASA-CASE-XLE-00103 US-PATENT-APPL-SN-517100 US-PATENT-CLASS-60-39.74 US-PATENT-2,940,259
N69-27505* #	c 15	NASA-CASE-XLA-09122 US-PATENT-APPL-SN-619903 US-PATENT-CLASS-64-28 US-PATENT-3,430,460	N69-39975* # c 14 NASA-CASE-XLA-01781 US-PATENT-APPL-SN-441936 US-PATENT-CLASS-73-86 US-PATENT-3,425,268	N70-33242* # c 31 NASA-CASE-XLA-00165 US-PATENT-APPL-SN-47120 US-PATENT-CLASS-244-117 US-PATENT-3,028,128
N69-27871* #	c 15	NASA-CASE-XMS-04318 US-PATENT-APPL-SN-521996 US-PATENT-CLASS-219-347 US-PATENT-3,431,397	N69-39978* # c 07 NASA-CASE-XGS-02749 US-PATENT-APPL-SN-502753 US-PATENT-CLASS-179-15 US-PATENT-3,450,842	N70-33254* # c 14 NASA-CASE-XLA-00062 US-PATENT-APPL-SN-853983 US-PATENT-CLASS-88-16 US-PATENT-3,041,924
N69-31244* #	c 06	NASA-CASE-NPO-10714 US-PATENT-APPL-SN-817569	N69-39979* # c 18 NASA-CASE-XGS-04119 US-PATENT-APPL-SN-452945 US-PATENT-CLASS-106-74 US-PATENT-3,454,410	N70-33255* # c 02 NASA-CASE-XLA-00230 US-PATENT-APPL-SN-41455 US-PATENT-CLASS-244-43 US-PATENT-3,053,484
N69-31343* #	c 16	NASA-CASE-ERC-10187 US-PATENT-APPL-SN-825253	N69-39980* # c 07 NASA-CASE-XGS-05211 US-PATENT-APPL-SN-590145 US-PATENT-CLASS-250-209 US-PATENT-3,444,380	N70-33264* # c 15 NASA-CASE-XLE-00092 US-PATENT-APPL-SN-835146 US-PATENT-CLASS-253-39.15 US-PATENT-3,057,597
N69-33482* #	c 26	NASA-CASE-ERC-10120 US-PATENT-APPL-SN-827597	N69-39981* # c 01 NASA-CASE-XLA-06095 US-PATENT-APPL-SN-683612 US-PATENT-CLASS-244-138 US-PATENT-3,443,779	N70-33265* # c 28 NASA-CASE-XLE-00817 US-PATENT-APPL-SN-264735 US-PATENT-CLASS-60-35.3 US-PATENT-3,173,246
N69-39733* #	c 06	NASA-CASE-XMF-03873 US-PATENT-APPL-SN-543774 US-PATENT-CLASS-73-24 US-PATENT-3,429,177	N69-39982* # c 14 NASA-CASE-XGS-01725 US-PATENT-APPL-SN-483891	N70-33266* # c 02 NASA-CASE-XLA-00221 US-PATENT-APPL-SN-51473 US-PATENT-CLASS-244-46 US-PATENT-3,064,928
N69-39734* #	c 09	NASA-CASE-XMF-04238 US-PATENT-APPL-SN-562443		N70-33267* # c 25 NASA-CASE-XLA-00675 US-PATENT-APPL-SN-178213 US-PATENT-CLASS-315-111 US-PATENT-3,171,060
				N70-33278* # c 11 NASA-CASE-XLE-00168 US-PATENT-APPL-SN-842170 US-PATENT-CLASS-73-116 US-PATENT-3,063,291

ACCESSION NUMBER INDEX

N70-34820

N70-33279*	c 21	NASA-CASE-XFR-00181 US-PATENT-APPL-SN-28175 US-PATENT-CLASS-244-83 US-PATENT-3,028,126	N70-33386*	c 14	NASA-CASE-XLA-00113 US-PATENT-APPL-SN-2792 US-PATENT-CLASS-73-147 US-PATENT-3,001,395	N70-34559* #	c 09	NASA-CASE-LAR-10218-1 US-PATENT-APPL-SN-47441
N70-33283*	c 17	NASA-CASE-XLE-00151 US-PATENT-APPL-SN-848481 US-PATENT-CLASS-75-171 US-PATENT-2,971,837	N70-34134*	c 03	NASA-CASE-XLE-00212 US-PATENT-APPL-SN-151598 US-PATENT-CLASS-310-4 US-PATENT-3,202,844	N70-34596*	c 09	NASA-CASE-XMF-00324 US-PATENT-APPL-SN-109789 US-PATENT-CLASS-339-176 US-PATENT-3,189,864
N70-33284*	c 28	NASA-CASE-XLE-00078 US-PATENT-APPL-SN-18776 US-PATENT-CLASS-60-35.6 US-PATENT-3,049,876	N70-34135*	c 31	NASA-CASE-XLA-00686 US-PATENT-APPL-SN-195347 US-PATENT-CLASS-343-833 US-PATENT-3,202,998	N70-34646* #	c 03	NASA-CASE-NPO-11138 US-PATENT-APPL-SN-9251
N70-33285*	c 05	NASA-CASE-XLA-00118 US-PATENT-APPL-SN-840983 US-PATENT-CLASS-5-345 US-PATENT-3,038,175	N70-34156*	c 14	NASA-CASE-XLE-00266 US-PATENT-APPL-SN-202024 US-PATENT-CLASS-73-15 US-PATENT-3,204,447	N70-34661*	c 25	NASA-CASE-XLA-00147 US-PATENT-APPL-SN-178215 US-PATENT-CLASS-313-156 US-PATENT-3,201,635
N70-33286*	c 02	NASA-CASE-XLA-00142 US-PATENT-APPL-SN-26375 US-PATENT-CLASS-244-46 US-PATENT-3,028,122	N70-34157*	c 03	NASA-CASE-XMF-00517 US-PATENT-APPL-SN-216711 US-PATENT-CLASS-244-1 US-PATENT-3,204,889	N70-34664*	c 15	NASA-CASE-XMF-00515 US-PATENT-APPL-SN-278790 US-PATENT-CLASS-308-9 US-PATENT-3,199,931
N70-33287*	c 11	NASA-CASE-XLA-00112 US-PATENT-APPL-SN-843022 US-PATENT-CLASS-73-147 US-PATENT-3,005,339	N70-34158*	c 14	NASA-CASE-XGS-00359 US-PATENT-APPL-SN-94952 US-PATENT-CLASS-250-203 US-PATENT-3,205,361	N70-34675* #	c 08	NASA-CASE-XNP-04162-1 US-PATENT-APPL-SN-872664
N70-33288*	c 17	NASA-CASE-XLE-02428 US-PATENT-APPL-SN-339821 US-PATENT-CLASS-29-198 US-PATENT-3,170,773	N70-34159*	c 31	NASA-CASE-XMF-03856 US-PATENT-APPL-SN-416941 US-PATENT-CLASS-248-188.9 US-PATENT-3,208,707	N70-34697* #	c 14	NASA-CASE-NPO-11106 US-PATENT-APPL-SN-15020
N70-33305*	c 12	NASA-CASE-XLA-00229 US-PATENT-APPL-SN-18780 US-PATENT-CLASS-114-66.5 US-PATENT-3,016,863	N70-34160*	c 02	NASA-CASE-XLA-01804 US-PATENT-APPL-SN-353637 US-PATENT-CLASS-244-50 US-PATENT-3,208,694	N70-34699* #	c 15	NASA-CASE-NPO-10682 US-PATENT-APPL-SN-15023
N70-33311*	c 15	NASA-CASE-XLE-00046 US-PATENT-APPL-SN-686796 US-PATENT-CLASS-29-488 US-PATENT-3,008,229	N70-34161*	c 14	NASA-CASE-XLA-00203 US-PATENT-APPL-SN-227682 US-PATENT-CLASS-73-105 US-PATENT-3,208,272	N70-34705*	c 14	NASA-CASE-XMF-00456 US-PATENT-APPL-SN-298800 US-PATENT-CLASS-73-88.5 US-PATENT-3,212,325
N70-33312*	c 09	NASA-CASE-XLA-00141 US-PATENT-APPL-SN-19971 US-PATENT-CLASS-219-34 US-PATENT-3,005,081	N70-34162*	c 28	NASA-CASE-XMF-01544 US-PATENT-APPL-SN-394638 US-PATENT-CLASS-60-35.55 US-PATENT-3,208,215	N70-34743*	c 08	NASA-CASE-XGS-00174 US-PATENT-APPL-SN-120803 US-PATENT-CLASS-307-88 US-PATENT-3,198,955
N70-33322*	c 14	NASA-CASE-XLA-00135 US-PATENT-APPL-SN-861152 US-PATENT-CLASS-244-14 US-PATENT-3,004,735	N70-34175*	c 28	NASA-CASE-XLE-01783 US-PATENT-APPL-SN-313132 US-PATENT-CLASS-60-35.5 US-PATENT-3,210,927	N70-34778*	c 08	NASA-CASE-XLA-00471 US-PATENT-APPL-SN-197553 US-PATENT-CLASS-235-154 US-PATENT-3,194,951
N70-33323*	c 15	NASA-CASE-XMF-00341 US-PATENT-APPL-SN-77256 US-PATENT-CLASS-62-45 US-PATENT-3,012,407	N70-34176*	c 31	NASA-CASE-XMF-00389 US-PATENT-APPL-SN-151114 US-PATENT-CLASS-244-1 US-PATENT-3,202,381	N70-34783*	c 27	NASA-CASE-XLA-00304 US-PATENT-APPL-SN-54552 US-PATENT-CLASS-18-39 US-PATENT-3,193,883
N70-33329*	c 11	NASA-CASE-XLA-00119 US-PATENT-APPL-SN-842171 US-PATENT-CLASS-240-1.2 US-PATENT-2,984,735	N70-34178*	c 02	NASA-CASE-XLA-00166 US-PATENT-APPL-SN-84961 US-PATENT-CLASS-244-46 US-PATENT-3,087,692	N70-34786*	c 11	NASA-CASE-XLA-00493 US-PATENT-APPL-SN-202029 US-PATENT-CLASS-73-432 US-PATENT-3,196,690
N70-33330*	c 15	NASA-CASE-XLE-00023 US-PATENT-APPL-SN-512352 US-PATENT-CLASS-78-1 US-PATENT-2,991,671	N70-34247*	c 15	NASA-CASE-XLE-00288 US-PATENT-APPL-SN-118200 US-PATENT-CLASS-62-50 US-PATENT-3,068,658	N70-34787*	c 08	NASA-CASE-XGS-00689 US-PATENT-APPL-SN-250451 US-PATENT-CLASS-235-176 US-PATENT-3,196,261
N70-33331*	c 28	NASA-CASE-XLA-00105 US-PATENT-APPL-SN-719173 US-PATENT-CLASS-60-35.6 US-PATENT-3,001,363	N70-34249*	c 15	NASA-CASE-XMF-00375 US-PATENT-APPL-SN-166969 US-PATENT-CLASS-72-56 US-PATENT-3,188,844	N70-34788*	c 28	NASA-CASE-XLE-00388 US-PATENT-APPL-SN-234568 US-PATENT-CLASS-55-306 US-PATENT-3,196,598
N70-33332*	c 02	NASA-CASE-XLA-00087 US-PATENT-APPL-SN-811509 US-PATENT-CLASS-244-12 US-PATENT-2,991,961	N70-34294*	c 28	NASA-CASE-XLE-00208 US-PATENT-APPL-SN-106135 US-PATENT-CLASS-60-35.54 US-PATENT-3,132,476	N70-34794*	c 14	NASA-CASE-XMF-00479 US-PATENT-APPL-SN-169977 US-PATENT-CLASS-73-71.2 US-PATENT-3,194,060
N70-33343*	c 03	NASA-CASE-XLA-00115 US-PATENT-APPL-SN-847027 US-PATENT-CLASS-244-1 US-PATENT-3,001,739	N70-34295*	c 21	NASA-CASE-XLA-01989 US-PATENT-APPL-SN-305020 US-PATENT-CLASS-244-1 US-PATENT-3,189,299	N70-34799*	c 14	NASA-CASE-XLA-00492 US-PATENT-APPL-SN-284265 US-PATENT-CLASS-73-88.5 US-PATENT-3,199,340
N70-33344*	c 33	NASA-CASE-XMS-00486 US-PATENT-APPL-SN-300113 US-PATENT-CLASS-244-1 US-PATENT-3,130,940	N70-34296*	c 31	NASA-CASE-XLA-00678 US-PATENT-APPL-SN-197551 US-PATENT-CLASS-244-1 US-PATENT-3,169,725	N70-34812*	c 33	NASA-CASE-XLE-00387 US-PATENT-APPL-SN-203411 US-PATENT-CLASS-219-19 US-PATENT-3,108,171
N70-33356*	c 28	NASA-CASE-XLE-00267 US-PATENT-APPL-SN-58147 US-PATENT-CLASS-60-35.5 US-PATENT-3,016,893	N70-34297*	c 21	NASA-CASE-XGS-00466 US-PATENT-APPL-SN-123597 US-PATENT-CLASS-250-83.3 US-PATENT-3,188,472	N70-34813*	c 14	NASA-CASE-XAC-00073 US-PATENT-APPL-SN-47122 US-PATENT-CLASS-73-147 US-PATENT-3,100,990
N70-33372*	c 28	NASA-CASE-XLE-00037 US-PATENT-APPL-SN-639589 US-PATENT-CLASS-253-39.15 US-PATENT-2,974,925	N70-34298*	c 14	NASA-CASE-XMF-00462 US-PATENT-APPL-SN-148001 US-PATENT-CLASS-88-14 US-PATENT-3,185,023	N70-34814*	c 15	NASA-CASE-XMF-00392 US-PATENT-APPL-SN-151112 US-PATENT-CLASS-219-137 US-PATENT-3,102,948
N70-33374*	c 28	NASA-CASE-XLA-00154 US-PATENT-APPL-SN-31242 US-PATENT-CLASS-60-35.6 US-PATENT-3,012,400	N70-34502*	c 09	NASA-CASE-XMF-00421 US-PATENT-APPL-SN-197548 US-PATENT-CLASS-317-140 US-PATENT-3,189,794	N70-34815*	c 11	NASA-CASE-XAC-00399 US-PATENT-APPL-SN-134481 US-PATENT-CLASS-35-12 US-PATENT-3,196,557
N70-33375*	c 28	NASA-CASE-XLE-00207 US-PATENT-APPL-SN-180370 US-PATENT-CLASS-60-35.6 US-PATENT-3,173,251	N70-34539*	c 21	NASA-CASE-XMF-00185 US-PATENT-APPL-SN-971112 US-PATENT-CLASS-244-76 US-PATENT-3,070,330	N70-34816*	c 14	NASA-CASE-XAC-00042 US-PATENT-APPL-SN-734805 US-PATENT-CLASS-73-398 US-PATENT-3,022,672
N70-33376*	c 15	NASA-CASE-XLE-00101 US-PATENT-APPL-SN-551961 US-PATENT-CLASS-251-173 US-PATENT-2,945,667	N70-34540*	c 33	NASA-CASE-XLA-00330 US-PATENT-APPL-SN-264729 US-PATENT-CLASS-219-121 US-PATENT-3,201,560	N70-34817*	c 15	NASA-CASE-XAC-00074 US-PATENT-APPL-SN-47123 US-PATENT-CLASS-137-340 US-PATENT-3,158,172
N70-33382*	c 15	NASA-CASE-XLE-00010 US-PATENT-APPL-SN-554899 US-PATENT-CLASS-266-19 US-PATENT-2,934,331	N70-34545*	c 33	NASA-CASE-XLE-00490 US-PATENT-APPL-SN-252259 US-PATENT-CLASS-219-347 US-PATENT-3,189,726	N70-34818*	c 14	NASA-CASE-XLE-00503 US-PATENT-APPL-SN-261912 US-PATENT-CLASS-73-136 US-PATENT-3,196,675
						N70-34819*	c 09	NASA-CASE-XGS-00381 US-PATENT-APPL-SN-104188 US-PATENT-CLASS-307-88.5 US-PATENT-3,085,165
						N70-34820*	c 14	NASA-CASE-XAC-00030 US-PATENT-APPL-SN-760819

		US-PATENT-CLASS-73-401			US-PATENT-APPL-SN-178721			US-PATENT-3,150,387
		US-PATENT-3,024,659			US-PATENT-CLASS-310-5	N70-36802*	c 28	NASA-CASE-XMF-00923
N70-34844*	c 11	NASA-CASE-XLE-00252			US-PATENT-3,205,381			US-PATENT-APPL-SN-264736
		US-PATENT-APPL-SN-144803	N70-35409*	c 15	NASA-CASE-XHQ-01208			US-PATENT-CLASS-60-35.5
		US-PATENT-CLASS-73-116			US-PATENT-APPL-SN-42022			US-PATENT-3,159,967
		US-PATENT-3,199,343			US-PATENT-CLASS-121-38	N70-36803*	c 03	NASA-CASE-XNP-00644
N70-34850*	c 15	NASA-CASE-XLA-00754			US-PATENT-3,088,441			US-PATENT-APPL-SN-212496
		US-PATENT-APPL-SN-209479	N70-35422* #	c 28	NASA-CASE-LEW-10814-1			US-PATENT-CLASS-310-11
		US-PATENT-CLASS-244-100			US-PATENT-APPL-SN-38262			US-PATENT-3,158,764
N70-34856*	c 02	US-PATENT-3,143,321	N70-35423*	c 08	NASA-CASE-XNP-00432	N70-36804*	c 02	NASA-CASE-XLA-00898
		NASA-CASE-XAC-00139			US-PATENT-APPL-SN-127234			US-PATENT-APPL-SN-227683
		US-PATENT-APPL-SN-168560			US-PATENT-CLASS-340-347			US-PATENT-CLASS-244-152
		US-PATENT-CLASS-244-51			US-PATENT-3,172,097			US-PATENT-3,170,660
N70-34857*	c 05	US-PATENT-3,144,999	N70-35425*	c 09	NASA-CASE-XNP-00683	N70-36805*	c 26	NASA-CASE-XLA-00158
		NASA-CASE-XMS-00863			US-PATENT-APPL-SN-251451			US-PATENT-APPL-SN-221637
		US-PATENT-APPL-SN-221634			US-PATENT-CLASS-343-781			US-PATENT-CLASS-23-208
		US-PATENT-CLASS-9-11			US-PATENT-3,209,361			US-PATENT-3,174,827
N70-34858*	c 02	US-PATENT-3,155,992	N70-35427*	c 21	NASA-CASE-XGS-00809	N70-36806*	c 28	NASA-CASE-XLE-00145
		NASA-CASE-XLA-00806			US-PATENT-APPL-SN-85585			US-PATENT-APPL-SN-173081
		US-PATENT-APPL-SN-181828			US-PATENT-CLASS-88-1			US-PATENT-CLASS-60-35.6
		US-PATENT-APPL-SN-26375			US-PATENT-3,083,611			US-PATENT-3,174,279
		US-PATENT-CLASS-244-46	N70-35440*	c 09	NASA-CASE-XAC-00435	N70-36807*	c 14	NASA-CASE-XLA-00100
		US-PATENT-3,170,657			US-PATENT-APPL-SN-164428			US-PATENT-APPL-SN-534901
N70-34859*	c 15	NASA-CASE-XLE-00715			US-PATENT-CLASS-330-14			US-PATENT-CLASS-73-178
		US-PATENT-APPL-SN-212174			US-PATENT-3,196,362			US-PATENT-3,168,827
		US-PATENT-CLASS-251-333	N70-35534*	c 27	NASA-CASE-XGS-03556	N70-36824*	c 14	NASA-CASE-XLA-00481
		US-PATENT-3,191,907			US-PATENT-APPL-SN-94259			US-PATENT-APPL-SN-120797
N70-34860*	c 28	NASA-CASE-XLE-00144			US-PATENT-CLASS-60-35.6			US-PATENT-CLASS-73-212
		US-PATENT-APPL-SN-177684			US-PATENT-3,191,379			US-PATENT-3,170,324
		US-PATENT-CLASS-60-35.6	N70-35587* #	c 14	NASA-CASE-FRC-10053	N70-36825*	c 02	NASA-CASE-XLA-01583
		US-PATENT-3,120,101			US-PATENT-APPL-SN-33398			US-PATENT-APPL-SN-327565
N70-34861*	c 15	NASA-CASE-XLE-00810	N70-35666*	c 14	NASA-CASE-XNP-00646			US-PATENT-CLASS-244-103
		US-PATENT-APPL-SN-249540			US-PATENT-APPL-SN-173981			US-PATENT-3,169,001
		US-PATENT-CLASS-188-1			US-PATENT-CLASS-324-33	N70-36845*	c 31	NASA-CASE-XMF-02108
		US-PATENT-3,164,222			US-PATENT-3,171,081			US-PATENT-APPL-SN-372727
N70-34946*	c 06	NASA-CASE-XNP-00733	N70-35679* #	c 15	NASA-CASE-MSC-12279-1			US-PATENT-CLASS-244-100
		US-PATENT-APPL-SN-256484			US-PATENT-APPL-SN-24154			US-PATENT-3,181,821
		US-PATENT-CLASS-62-15	N70-36400*	c 18	NASA-CASE-XMS-00259	N70-36846*	c 33	NASA-CASE-XLA-00189
		US-PATENT-3,192,730			US-PATENT-APPL-SN-145007			US-PATENT-APPL-SN-223003
N70-34966*	c 31	NASA-CASE-XFR-00929			US-PATENT-CLASS-117-69			US-PATENT-CLASS-102-49
		US-PATENT-APPL-SN-290868			US-PATENT-3,157,529			US-PATENT-3,180,264
		US-PATENT-CLASS-35-12	N70-36409*	c 15	NASA-CASE-XLA-00482	N70-36847*	c 33	NASA-CASE-XNP-00463
		US-PATENT-3,191,316			US-PATENT-APPL-SN-166970			US-PATENT-APPL-SN-259487
N70-34967*	c 15	NASA-CASE-XNP-00595			US-PATENT-CLASS-29-423			US-PATENT-CLASS-165-96
		US-PATENT-APPL-SN-188594			US-PATENT-3,160,950			US-PATENT-3,177,933
		US-PATENT-CLASS-204-298	N70-36410*	c 31	NASA-CASE-XMF-00641	N70-36901*	c 15	NASA-CASE-XFR-00811
		US-PATENT-3,189,535			US-PATENT-APPL-SN-221945			US-PATENT-APPL-SN-257346
N70-35087*	c 15	NASA-CASE-XGS-00587			US-PATENT-CLASS-244-1			US-PATENT-CLASS-29-234
		US-PATENT-APPL-SN-313135			US-PATENT-3,158,336			US-PATENT-3,166,834
		US-PATENT-CLASS-137-340	N70-36411*	c 15	NASA-CASE-XLE-00164	N70-36907*	c 14	NASA-CASE-XNP-00614
		US-PATENT-3,211,169			US-PATENT-APPL-SN-107870			US-PATENT-APPL-SN-247419
N70-35089*	c 21	NASA-CASE-XNP-00438			US-PATENT-CLASS-60-39.66			US-PATENT-CLASS-33-1
		US-PATENT-APPL-SN-180381			US-PATENT-3,162,012			US-PATENT-3,163,935
		US-PATENT-CLASS-250-203	N70-36412*	c 15	NASA-CASE-XLE-00170	N70-36908*	c 15	NASA-CASE-XNP-00214
		US-PATENT-3,205,362			US-PATENT-APPL-SN-232914			US-PATENT-APPL-SN-180377
N70-35152*	c 05	NASA-CASE-XMS-01240			US-PATENT-CLASS-253-66			US-PATENT-CLASS-137-625.69
		US-PATENT-APPL-SN-331324			US-PATENT-3,164,369			US-PATENT-3,140,728
		US-PATENT-CLASS-297-216	N70-36492*	c 15	NASA-CASE-XLE-00397	N70-36910*	c 28	NASA-CASE-XNP-00610
		US-PATENT-3,165,356			US-PATENT-APPL-SN-195346			US-PATENT-APPL-SN-211464
N70-35219*	c 09	NASA-CASE-XNP-00611			US-PATENT-CLASS-137-614			US-PATENT-CLASS-60-35.6
		US-PATENT-APPL-SN-140443			US-PATENT-3,170,486			US-PATENT-3,170,290
		US-PATENT-CLASS-343-781	N70-36493*	c 05	NASA-CASE-XMS-00864	N70-36911*	c 07	NASA-CASE-XNP-00748
		US-PATENT-3,209,360			US-PATENT-APPL-SN-258932			US-PATENT-APPL-SN-184649
N70-35220*	c 14	NASA-CASE-XNP-00449			US-PATENT-CLASS-9-316			US-PATENT-CLASS-343-17.2
		US-PATENT-APPL-SN-118169			US-PATENT-3,152,344			US-PATENT-3,183,506
		US-PATENT-CLASS-330-49	N70-36494*	c 09	NASA-CASE-XMF-00369	N70-36913*	c 11	NASA-CASE-XMF-00411
		US-PATENT-3,160,825			US-PATENT-APPL-SN-134782			US-PATENT-APPL-SN-158914
N70-35368*	c 14	NASA-CASE-XLE-00335			US-PATENT-CLASS-339-176			US-PATENT-CLASS-73-147
		US-PATENT-APPL-SN-197554			US-PATENT-3,149,897			US-PATENT-3,182,496
		US-PATENT-CLASS-73-15.6	N70-36535*	c 15	NASA-CASE-XLE-00303	N70-36938*	c 21	NASA-CASE-XNP-00294
		US-PATENT-3,176,499			US-PATENT-APPL-SN-182692			US-PATENT-APPL-SN-182696
N70-35381*	c 28	NASA-CASE-XHQ-01897			US-PATENT-CLASS-60-35.6			US-PATENT-CLASS-60-35.5
		US-PATENT-APPL-SN-129579			US-PATENT-3,170,286			US-PATENT-3,178,883
		US-PATENT-CLASS-60-35.6	N70-36536*	c 32	NASA-CASE-XLA-00204	N70-36943*	c 21	NASA-CASE-XLA-00281
		US-PATENT-3,121,309			US-PATENT-APPL-SN-189648			US-PATENT-APPL-SN-84962
N70-35382*	c 09	NASA-CASE-XNP-00540			US-PATENT-CLASS-135-1			US-PATENT-CLASS-244-1
		US-PATENT-APPL-SN-140509			US-PATENT-3,170,471			US-PATENT-3,180,587
		US-PATENT-CLASS-343-781	N70-36616*	c 17	NASA-CASE-XLE-00283	N70-36946*	c 25	NASA-CASE-XLA-01354
		US-PATENT-3,212,096			US-PATENT-APPL-SN-107866			US-PATENT-APPL-SN-253774
N70-35383*	c 11	NASA-CASE-XMF-00580			US-PATENT-CLASS-75-171			US-PATENT-CLASS-60-35.5
		US-PATENT-APPL-SN-343425			US-PATENT-3,167,426			US-PATENT-3,174,278
		US-PATENT-CLASS-248-119	N70-36617*	c 33	NASA-CASE-XLA-01291	N70-36947*	c 15	NASA-CASE-XNP-00416
		US-PATENT-3,194,525			US-PATENT-APPL-SN-277961			US-PATENT-APPL-SN-180395
N70-35394*	c 14	NASA-CASE-XNP-00708			US-PATENT-CLASS-244-1			US-PATENT-CLASS-189-36
		US-PATENT-APPL-SN-281069			US-PATENT-3,176,933			US-PATENT-3,169,613
		US-PATENT-CLASS-35-45	N70-36618*	c 14	NASA-CASE-XLE-00143	N70-37245*	c 28	NASA-CASE-XLE-00376
		US-PATENT-3,196,558			US-PATENT-APPL-SN-104187			US-PATENT-APPL-SN-139007
N70-35395*	c 21	NASA-CASE-XNP-00465			US-PATENT-CLASS-324-61			US-PATENT-CLASS-60-35.5
		US-PATENT-APPL-SN-180379			US-PATENT-3,176,222			US-PATENT-3,156,090
		US-PATENT-CLASS-244-1	N70-36654*	c 31	NASA-CASE-XMF-02853	N70-37924*	c 31	NASA-CASE-XGS-00260
		US-PATENT-3,206,141			US-PATENT-APPL-SN-360182			US-PATENT-APPL-SN-187446
N70-35407*	c 15	NASA-CASE-XLE-00815			US-PATENT-CLASS-244-100			US-PATENT-CLASS-244-1
		US-PATENT-APPL-SN-300712			US-PATENT-3,175,789			US-PATENT-3,090,580
		US-PATENT-CLASS-251-11	N70-36778*	c 03	NASA-CASE-XLA-00838	N70-37925*	c 15	NASA-CASE-XLA-00128
		US-PATENT-3,211,414			US-PATENT-APPL-SN-192016			US-PATENT-APPL-SN-32496
N70-35408*	c 03	NASA-CASE-XGS-01593			US-PATENT-CLASS-9-8			US-PATENT-CLASS-73-384

ACCESSION NUMBER INDEX

N70-40272

		US-PATENT-3,093,000			US-PATENT-3,135,090			US-PATENT-3,229,884
N70-37938*	c 31	NASA-CASE-XLA-00149	N70-38601*	c 15	NASA-CASE-XLA-00679	N70-39925*	c 28	NASA-CASE-XLE-00660
		US-PATENT-APPL-SN-847023			US-PATENT-APPL-SN-213836			US-PATENT-APPL-SN-231604
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-188-1			US-PATENT-CLASS-313-11.5
		US-PATENT-3,093,346			US-PATENT-3,128,845			US-PATENT-3,229,139
N70-37939*	c 02	NASA-CASE-XLE-00222	N70-38602*	c 14	NASA-CASE-XLE-00243	N70-39930*	c 03	NASA-CASE-XLA-00791
		US-PATENT-APPL-SN-77252			US-PATENT-APPL-SN-118203			US-PATENT-APPL-SN-347960
		US-PATENT-CLASS-244-113			US-PATENT-CLASS-324-106			US-PATENT-CLASS-102-49
		US-PATENT-3,098,630			US-PATENT-3,202,915			US-PATENT-3,229,636
N70-37979*	c 33	NASA-CASE-XLA-00349	N70-38603*	c 15	NASA-CASE-XNP-00450	N70-39931*	c 28	NASA-CASE-XNP-01104
		US-PATENT-APPL-SN-141220			US-PATENT-APPL-SN-180394			US-PATENT-APPL-SN-290867
		US-PATENT-CLASS-62-467			US-PATENT-CLASS-137-495			US-PATENT-CLASS-60-39.48
		US-PATENT-3,090,212			US-PATENT-3,105,515			US-PATENT-3,229,462
N70-37980*	c 28	NASA-CASE-XLE-00342	N70-38604*	c 09	NASA-CASE-XGS-00458	N70-40003*	c 14	NASA-CASE-XGS-01036
		US-PATENT-APPL-SN-60531			US-PATENT-APPL-SN-139006			US-PATENT-APPL-SN-227692
		US-PATENT-CLASS-60-35.5			US-PATENT-CLASS-307-88			US-PATENT-CLASS-88-14
		US-PATENT-3,119,232			US-PATENT-3,128,389			US-PATENT-3,229,568
N70-37981*	c 31	NASA-CASE-XLA-00138	N70-38620*	c 15	NASA-CASE-XNP-00476	N70-40015*	c 26	NASA-CASE-XLA-02057
		US-PATENT-APPL-SN-8204			US-PATENT-APPL-SN-182698			US-PATENT-APPL-SN-320595
		US-PATENT-CLASS-343-18			US-PATENT-CLASS-308-9			US-PATENT-CLASS-23-277
		US-PATENT-3,115,630			US-PATENT-3,132,903			US-PATENT-3,230,053
N70-37986*	c 31	NASA-CASE-XLA-00241	N70-38645*	c 28	NASA-CASE-XNP-00234	N70-40016*	c 30	NASA-CASE-XGS-00619
		US-PATENT-APPL-SN-61329			US-PATENT-APPL-SN-180382			US-PATENT-APPL-SN-264728
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-60-35.54			US-PATENT-CLASS-244-1
		US-PATENT-3,104,079			US-PATENT-3,139,725			US-PATENT-3,229,930
N70-38009*	c 02	NASA-CASE-XLA-00195	N70-38675*	c 11	NASA-CASE-XNP-00459	N70-40062*	c 15	NASA-CASE-XMS-01624
		US-PATENT-APPL-SN-60536			US-PATENT-APPL-SN-180384			US-PATENT-APPL-SN-422867
		US-PATENT-CLASS-244-140			US-PATENT-CLASS-73-432			US-PATENT-CLASS-55-408
		US-PATENT-3,079,113			US-PATENT-3,187,583			US-PATENT-3,224,173
N70-38010*	c 31	NASA-CASE-XLA-00805	N70-38676*	c 31	NASA-CASE-XLA-00258	N70-40063*	c 07	NASA-CASE-XMS-00893
		US-PATENT-APPL-SN-181829			US-PATENT-APPL-SN-101029			US-PATENT-APPL-SN-251449
		US-PATENT-CLASS-244-46			US-PATENT-CLASS-244-1			US-PATENT-CLASS-343-18
		US-PATENT-3,120,361			US-PATENT-3,144,219			US-PATENT-3,224,001
N70-38011*	c 02	NASA-CASE-XLA-00350	N70-38710*	c 28	NASA-CASE-XMF-00148	N70-40123*	c 09	NASA-CASE-XGS-01881
		US-PATENT-APPL-SN-153266			US-PATENT-APPL-SN-118202			US-PATENT-APPL-SN-155584
		US-PATENT-CLASS-244-46			US-PATENT-CLASS-60-35.6			US-PATENT-CLASS-324-43
		US-PATENT-3,104,082			US-PATENT-3,122,885			US-PATENT-3,218,547
N70-38020*	c 15	NASA-CASE-XLE-00345	N70-38711*	c 28	NASA-CASE-XLE-00057	N70-40124*	c 12	NASA-CASE-XLE-01512
		US-PATENT-APPL-SN-183978			US-PATENT-APPL-SN-0914			US-PATENT-APPL-SN-315096
		US-PATENT-CLASS-62-55			US-PATENT-CLASS-60-35.55			US-PATENT-CLASS-149-2
		US-PATENT-3,122,000			US-PATENT-3,080,711			US-PATENT-3,215,572
N70-38181*	c 28	NASA-CASE-XNP-00217	N70-38712*	c 09	NASA-CASE-XMF-01129	N70-40125*	c 08	NASA-CASE-XAC-00404
		US-PATENT-APPL-SN-180374			US-PATENT-APPL-SN-273534			US-PATENT-APPL-SN-209801
		US-PATENT-CLASS-102-49			US-PATENT-CLASS-318-260			US-PATENT-CLASS-340-347
		US-PATENT-3,122,098			US-PATENT-3,147,422			US-PATENT-3,216,007
N70-38182*	c 11	NASA-CASE-XNP-00612	N70-38713*	c 03	NASA-CASE-XGS-00473	N70-40156*	c 15	NASA-CASE-XLA-01019
		US-PATENT-APPL-SN-228507			US-PATENT-APPL-SN-139012			US-PATENT-APPL-SN-282817
		US-PATENT-CLASS-220-63			US-PATENT-CLASS-200-39			US-PATENT-CLASS-248-358
		US-PATENT-3,123,248			US-PATENT-3,141,932			US-PATENT-3,223,374
N70-38196*	c 11	NASA-CASE-XMF-00424	N70-38995*	c 09	NASA-CASE-XGS-00131	N70-40157*	c 14	NASA-CASE-XLA-00487
		US-PATENT-APPL-SN-159804			US-PATENT-APPL-SN-14488			US-PATENT-APPL-SN-236748
		US-PATENT-CLASS-73-517			US-PATENT-CLASS-331-113			US-PATENT-CLASS-73-178
		US-PATENT-3,141,340			US-PATENT-3,150,329			US-PATENT-3,221,549
N70-38197*	c 28	NASA-CASE-XLE-00455	N70-38996*	c 15	NASA-CASE-XNP-00676	N70-40180*	c 15	NASA-CASE-XAC-00472
		US-PATENT-APPL-SN-203409			US-PATENT-APPL-SN-290870			US-PATENT-APPL-SN-236749
		US-PATENT-CLASS-75-222			US-PATENT-CLASS-222-389			US-PATENT-CLASS-73-142
		US-PATENT-3,141,769			US-PATENT-3,170,605			US-PATENT-3,224,263
N70-38198*	c 17	NASA-CASE-XLE-00231	N70-38997*	c 12	NASA-CASE-XMF-00658	N70-40201*	c 14	NASA-CASE-XLE-00720
		US-PATENT-APPL-SN-64226			US-PATENT-APPL-SN-216710			US-PATENT-APPL-SN-302749
		US-PATENT-CLASS-22-203			US-PATENT-CLASS-137-1			US-PATENT-CLASS-73-134
		US-PATENT-3,138,837			US-PATENT-3,110,318			US-PATENT-3,221,547
N70-38199*	c 28	NASA-CASE-XLE-00111	N70-38998*	c 09	NASA-CASE-XNP-00431	N70-40202*	c 07	NASA-CASE-XMF-00437
		US-PATENT-APPL-SN-835152			US-PATENT-APPL-SN-180380			US-PATENT-APPL-SN-120795
		US-PATENT-CLASS-60-39.48			US-PATENT-CLASS-340-147			US-PATENT-CLASS-343-705
		US-PATENT-3,136,123			US-PATENT-3,100,294			US-PATENT-3,077,599
N70-38200*	c 07	NASA-CASE-XLA-00414	N70-38995*	c 28	NASA-CASE-XLE-00085	N70-40203*	c 14	NASA-CASE-XLE-00702
		US-PATENT-APPL-SN-209478			US-PATENT-APPL-SN-25175			US-PATENT-APPL-SN-258931
		US-PATENT-CLASS-343-705			US-PATENT-CLASS-253-66			US-PATENT-CLASS-73-116
		US-PATENT-3,132,342			US-PATENT-3,070,349			US-PATENT-3,201,980
N70-38201*	c 09	NASA-CASE-XNP-00738	N70-38996*	c 15	NASA-CASE-XMF-00339	N70-40204*	c 15	NASA-CASE-XMF-00722
		US-PATENT-APPL-SN-204015			US-PATENT-APPL-SN-110591			US-PATENT-APPL-SN-347626
		US-PATENT-CLASS-174-115			US-PATENT-CLASS-308-9			US-PATENT-CLASS-228-50
		US-PATENT-3,106,603			US-PATENT-3,070,407			US-PATENT-3,219,250
N70-38202*	c 11	NASA-CASE-XNP-00425	N70-38997*	c 18	NASA-CASE-XLE-00353	N70-40233*	c 14	NASA-CASE-XMS-01546
		US-PATENT-APPL-SN-180396			US-PATENT-APPL-SN-65548			US-PATENT-APPL-SN-386467
		US-PATENT-CLASS-89-1.7			US-PATENT-CLASS-252-58			US-PATENT-CLASS-222-45
		US-PATENT-3,112,672			US-PATENT-3,072,574			US-PATENT-3,228,558
N70-38225*	c 15	NASA-CASE-XNP-00840	N70-38998*	c 14	NASA-CASE-XMF-00480	N70-40234*	c 09	NASA-CASE-XLE-01716
		US-PATENT-APPL-SN-269222			US-PATENT-APPL-SN-144804			US-PATENT-APPL-SN-349778
		US-PATENT-CLASS-267-1			US-PATENT-CLASS-248-346			US-PATENT-CLASS-126-270
		US-PATENT-3,127,157			US-PATENT-3,069,123			US-PATENT-3,229,682
N70-38249*	c 28	NASA-CASE-XNP-00249	N70-38999*	c 28	NASA-CASE-XLE-00005	N70-40238*	c 14	NASA-CASE-XMF-00908
		US-PATENT-APPL-SN-180391			US-PATENT-APPL-SN-718095			US-PATENT-APPL-SN-241085
		US-PATENT-CLASS-60-35.6			US-PATENT-CLASS-60-35.6			US-PATENT-CLASS-250-201
		US-PATENT-3,120,738			US-PATENT-3,067,573			US-PATENT-3,229,099
N70-38490*	c 17	NASA-CASE-XLE-00228	N70-39915*	c 09	NASA-CASE-XAC-00060	N70-40239*	c 14	NASA-CASE-XLA-00183
		US-PATENT-APPL-SN-64224			US-PATENT-APPL-SN-47121			US-PATENT-APPL-SN-199202
		US-PATENT-CLASS-29-183.5			US-PATENT-CLASS-200-19			US-PATENT-CLASS-250-203
		US-PATENT-3,084,421			US-PATENT-3,076,065			US-PATENT-3,229,102
N70-38504*	c 28	NASA-CASE-XMS-00583	N70-39922*	c 05	NASA-CASE-XMS-01115	N70-40240*	c 14	NASA-CASE-XHQ-04106
		US-PATENT-APPL-SN-182699			US-PATENT-APPL-SN-277404			US-PATENT-APPL-SN-91180
		US-PATENT-CLASS-60-35.6			US-PATENT-CLASS-128-29			US-PATENT-CLASS-250-105
		US-PATENT-3,135,089			US-PATENT-3,229,689			US-PATENT-3,143,651
N70-38505*	c 28	NASA-CASE-XLE-00323	N70-39924*	c 15	NASA-CASE-XMF-00640	N70-40272*	c 09	NASA-CASE-XMF-00701
		US-PATENT-APPL-SN-183977			US-PATENT-APPL-SN-341467			US-PATENT-APPL-SN-261917
		US-PATENT-CLASS-60-35.6			US-PATENT-CLASS-228-50			US-PATENT-CLASS-307-88.5

N70-40273

ACCESSION NUMBER INDEX

N70-40273*	c 14	US-PATENT-3,218,479	N70-41580*	c 03	US-PATENT-3,295,556	N70-41811*	c 15	US-PATENT-3,287,031
		NASA-CASE-XNP-00637			NASA-CASE-XLA-04622			NASA-CASE-XNP-01152
		US-PATENT-APPL-SN-280776			US-PATENT-APPL-SN-277833			US-PATENT-APPL-SN-369337
N70-40309*	c 30	US-PATENT-CLASS-95-58	N70-41581*	c 05	US-PATENT-CLASS-126-270	N70-41812*	c 14	US-PATENT-CLASS-137-539
		NASA-CASE-XLA-00210			US-PATENT-3,295,512			US-PATENT-3,302,662
		US-PATENT-APPL-SN-82658			NASA-CASE-XAC-01404			NASA-CASE-XMS-03792
N70-40353*	c 30	US-PATENT-CLASS-343-18	N70-41582*	c 28	US-PATENT-CLASS-74-471	N70-41818*	c 28	US-PATENT-APPL-SN-516159
		US-PATENT-3,220,004			US-PATENT-3,295,386			US-PATENT-CLASS-200-61.45
		NASA-CASE-XMF-03198			NASA-CASE-XMF-01813			US-PATENT-3,303,304
N70-40354*	c 15	US-PATENT-APPL-SN-370134	N70-41583*	c 18	US-PATENT-APPL-SN-375674	N70-41819*	c 05	NASA-CASE-XLE-00150
		US-PATENT-CLASS-89-1.7			US-PATENT-CLASS-181-52			US-PATENT-APPL-SN-843032
		US-PATENT-3,224,336			US-PATENT-3,270,835			US-PATENT-CLASS-29-157.3
N70-40367*	c 28	NASA-CASE-XMF-01045	N70-41588*	c 31	US-PATENT-3,296,060	N70-41829*	c 15	US-PATENT-3,035,333
		US-PATENT-APPL-SN-355130			NASA-CASE-XMF-01973			NASA-CASE-XAC-00405
		US-PATENT-CLASS-188-1			US-PATENT-APPL-SN-317389			US-PATENT-APPL-SN-158916
N70-40400*	c 14	US-PATENT-3,228,492	N70-41589*	c 02	US-PATENT-CLASS-161-115	N70-41855*	c 31	US-PATENT-CLASS-128-1
		NASA-CASE-XAC-00648			US-PATENT-3,296,060			US-PATENT-3,302,633
		US-PATENT-APPL-SN-216939			NASA-CASE-XMF-01973			NASA-CASE-XMF-01371
N70-41275*	c 28	US-PATENT-CLASS-73-147	N70-41628*	c 25	US-PATENT-APPL-SN-375682	N70-41856*	c 21	US-PATENT-APPL-SN-353634
		US-PATENT-3,218,850			US-PATENT-CLASS-244-1			US-PATENT-CLASS-287-1.19
		NASA-CASE-XNP-01390			US-PATENT-3,295,790			US-PATENT-3,302,960
N70-41297*	c 05	US-PATENT-APPL-SN-424157	N70-41629*	c 15	NASA-CASE-XMF-01174	N70-41863*	c 02	NASA-CASE-XNP-02982
		US-PATENT-CLASS-60-259			US-PATENT-APPL-SN-410331			US-PATENT-APPL-SN-388966
		US-PATENT-3,300,981			US-PATENT-CLASS-244-100			US-PATENT-CLASS-244-1
N70-41310*	c 15	NASA-CASE-XMS-01492	N70-41630*	c 02	US-PATENT-3,295,798	N70-41864*	c 03	US-PATENT-3,304,028
		US-PATENT-APPL-SN-398131			NASA-CASE-XAC-00319			NASA-CASE-XNP-01307
		US-PATENT-CLASS-55-35			US-PATENT-APPL-SN-77251			US-PATENT-APPL-SN-390250
N70-41311*	c 28	US-PATENT-3,300,949	N70-41631*	c 31	US-PATENT-CLASS-315-111	N70-41871*	c 31	US-PATENT-CLASS-244-1
		NASA-CASE-XNP-01567			US-PATENT-3,229,155			US-PATENT-3,286,953
		US-PATENT-APPL-SN-448898			NASA-CASE-XGS-02441			NASA-CASE-XLA-01220
N70-41329*	c 05	US-PATENT-CLASS-248-178	N70-41646*	c 15	US-PATENT-APPL-SN-411944	N70-41897*	c 27	US-PATENT-APPL-SN-379417
		US-PATENT-3,295,808			US-PATENT-CLASS-285-331			US-PATENT-CLASS-244-16
		NASA-CASE-XNP-00876			US-PATENT-3,301,578			US-PATENT-3,286,957
N70-41330*	c 14	US-PATENT-APPL-SN-377784	N70-41647*	c 14	NASA-CASE-XMS-00907	N70-41922*	c 28	NASA-CASE-XGS-01419
		US-PATENT-CLASS-60-251			US-PATENT-APPL-SN-428890			US-PATENT-APPL-SN-323182
		US-PATENT-3,298,182			US-PATENT-CLASS-244-138			US-PATENT-CLASS-136-179
N70-41331*	c 07	US-PATENT-3,298,182	N70-41655*	c 09	US-PATENT-3,301,511	N70-41929*	c 09	US-PATENT-3,287,174
		NASA-CASE-XMS-01615			NASA-CASE-XMS-04142			NASA-CASE-XMS-04390
		US-PATENT-APPL-SN-329595			US-PATENT-APPL-SN-422865			US-PATENT-APPL-SN-502729
N70-41332*	c 14	US-PATENT-CLASS-128-2.05	N70-41675*	c 09	US-PATENT-CLASS-244-1	N70-41930*	c 21	US-PATENT-CLASS-62-45
		US-PATENT-3,298,362			US-PATENT-3,301,507			US-PATENT-3,304,729
		NASA-CASE-XLE-00688			NASA-CASE-XLE-01449			NASA-CASE-XNP-01749
N70-41336*	c 14	US-PATENT-APPL-SN-334672	N70-41676*	c 14	US-PATENT-APPL-SN-330209	N70-41946*	c 14	US-PATENT-APPL-SN-440033
		US-PATENT-CLASS-73-32			US-PATENT-CLASS-137-197			US-PATENT-CLASS-149-109
		US-PATENT-3,298,221			US-PATENT-3,295,545			US-PATENT-3,305,415
N70-41367*	c 32	NASA-CASE-XLA-01400	N70-41677*	c 11	NASA-CASE-XGS-00769	N70-41948*	c 31	NASA-CASE-XNP-02839
		US-PATENT-APPL-SN-363653			US-PATENT-APPL-SN-319893			US-PATENT-APPL-SN-477333
		US-PATENT-CLASS-325-65			US-PATENT-CLASS-242-55.19			US-PATENT-CLASS-60-202
N70-41370*	c 32	US-PATENT-3,296,531	N70-41678*	c 07	US-PATENT-3,295,782	N70-41954*	c 03	US-PATENT-3,304,718
		NASA-CASE-XLA-00495			NASA-CASE-XMF-00906			NASA-CASE-XNP-01951
		US-PATENT-APPL-SN-269215			US-PATENT-APPL-SN-284731			US-PATENT-APPL-SN-413662
N70-41371*	c 15	US-PATENT-CLASS-324-70	N70-41679*	c 15	US-PATENT-CLASS-324-113	N70-41955*	c 14	US-PATENT-CLASS-335-300
		US-PATENT-3,296,526			US-PATENT-3,287,640			US-PATENT-3,305,810
		NASA-CASE-XLA-01353			NASA-CASE-XMS-01315			NASA-CASE-XNP-01501
N70-41372*	c 07	US-PATENT-APPL-SN-403960	N70-41680*	c 07	US-PATENT-APPL-SN-347101	N70-41960*	c 15	US-PATENT-APPL-SN-432027
		US-PATENT-CLASS-73-147			US-PATENT-CLASS-307-88.5			US-PATENT-CLASS-343-12
		US-PATENT-3,301,046			US-PATENT-3,302,040			US-PATENT-3,305,861
N70-41373*	c 31	NASA-CASE-XGS-00938	N70-41681*	c 14	NASA-CASE-XGS-01231	N70-41961*	c 08	NASA-CASE-XLE-00011
		US-PATENT-APPL-SN-392970			US-PATENT-APPL-SN-346356			US-PATENT-APPL-SN-735911
		US-PATENT-CLASS-214-1			US-PATENT-CLASS-250-71			US-PATENT-CLASS-88-14
N70-41447*	c 28	US-PATENT-3,295,699	N70-41682*	c 14	US-PATENT-3,302,023	N70-41966*	c 10	US-PATENT-2,960,002
		NASA-CASE-XNP-01962			NASA-CASE-XMF-01772			NASA-CASE-XMF-01899
		US-PATENT-APPL-SN-369640			US-PATENT-APPL-SN-370135			US-PATENT-APPL-SN-428882
N70-41576*	c 28	US-PATENT-CLASS-92-94	N70-41687*	c 07	US-PATENT-CLASS-73-116	N70-41967*	c 28	US-PATENT-CLASS-60-257
		US-PATENT-3,298,285			US-PATENT-3,295,366			US-PATENT-3,304,772
		NASA-CASE-XMF-01452			NASA-CASE-XGS-02608			NASA-CASE-XAC-03392
N70-41578*	c 16	US-PATENT-APPL-SN-356692	N70-41717*	c 09	US-PATENT-APPL-SN-456578	N70-41991*	c 10	US-PATENT-APPL-SN-430776
		US-PATENT-CLASS-29-271			US-PATENT-CLASS-343-18			US-PATENT-CLASS-74-519
		US-PATENT-3,300,847			US-PATENT-3,289,205			US-PATENT-3,304,799
N70-41579*	c 32	NASA-CASE-XLA-01127	N70-41807*	c 14	NASA-CASE-XLA-01441	N70-41996*	c 10	NASA-CASE-XNP-02029
		US-PATENT-APPL-SN-363654			US-PATENT-APPL-SN-516151			US-PATENT-APPL-SN-221276
		US-PATENT-CLASS-325-65			US-PATENT-CLASS-102-49			US-PATENT-CLASS-88-14
N70-41580*	c 03	US-PATENT-3,300,731	N70-41808*	c 15	US-PATENT-3,302,569	N70-41997*	c 10	US-PATENT-3,323,408
		NASA-CASE-XMS-01906			NASA-CASE-XNP-02723			NASA-CASE-XAC-01101
		US-PATENT-APPL-SN-339040			US-PATENT-APPL-SN-371857			US-PATENT-APPL-SN-355129
N70-41581*	c 05	US-PATENT-CLASS-244-1	N70-41809*	c 14	US-PATENT-CLASS-343-14	N70-41998*	c 10	US-PATENT-CLASS-73-141
		US-PATENT-3,300,162			US-PATENT-3,287,725			US-PATENT-3,304,773
		NASA-CASE-XNP-00732			NASA-CASE-XAC-02877			NASA-CASE-XNP-05082
N70-41582*	c 28	US-PATENT-APPL-SN-261918	N70-41810*	c 14	US-PATENT-APPL-SN-449902	N70-41999*	c 10	US-PATENT-APPL-SN-521753
		US-PATENT-CLASS-210-314			US-PATENT-CLASS-73-30			US-PATENT-CLASS-174-68.5
		US-PATENT-3,295,684			US-PATENT-3,295,360			US-PATENT-3,321,570
N70-41583*	c 18	US-PATENT-3,295,377	N70-41811*	c 15	NASA-CASE-XMS-05936	N70-42000*	c 10	NASA-CASE-XNP-00911
		NASA-CASE-XLE-00519			US-PATENT-APPL-SN-557868			US-PATENT-APPL-SN-280777
		US-PATENT-APPL-SN-249542			US-PATENT-CLASS-73-517			US-PATENT-CLASS-178-67
N70-41584*	c 28	US-PATENT-CLASS-313-63	N70-41812*	c 14	US-PATENT-3,295,377	N70-42001*	c 10	US-PATENT-3,305,636
		US-PATENT-3,287,582			NASA-CASE-XMS-02087			NASA-CASE-XGS-01983
		NASA-CASE-XGS-01504			US-PATENT-APPL-SN-439489			US-PATENT-APPL-SN-388023
N70-41585*	c 31	US-PATENT-CLASS-331-94	N70-41813*	c 15	US-PATENT-CLASS-165-1	N70-42002*	c 10	US-PATENT-CLASS-333-79
		US-PATENT-3,287,660			US-PATENT-3,301,315			US-PATENT-3,305,801
		NASA-CASE-XLE-00620			NASA-CASE-XNP-01472			NASA-CASE-XLA-02651

N70-41992*	c 28	US-PATENT-3,321,628 NASA-CASE-XLE-00685 US-PATENT-APPL-SN-407595 US-PATENT-CLASS-60-260 US-PATENT-3,321,922	N71-10616*	c 14	US-PATENT-3,311,315 NASA-CASE-XMF-02433 US-PATENT-APPL-SN-405630 US-PATENT-CLASS-73-70.2 US-PATENT-3,310,978	N71-10781*	c 14	US-PATENT-3,316,716 NASA-CASE-XLE-01481 US-PATENT-APPL-SN-319905 US-PATENT-CLASS-73-99 US-PATENT-3,282,091
N70-41993*	c 15	NASA-CASE-XLE-01300 US-PATENT-APPL-SN-380960 US-PATENT-CLASS-73-100 US-PATENT-3,323,356	N71-10617*	c 15	NASA-CASE-XMF-01887 US-PATENT-APPL-SN-422868 US-PATENT-CLASS-308-5 US-PATENT-3,325,229	N71-10782*	c 15	NASA-CASE-XKS-01985 US-PATENT-APPL-SN-357337 US-PATENT-CLASS-285-24 US-PATENT-3,319,979
N70-41994*	c 14	NASA-CASE-XMF-02822 US-PATENT-APPL-SN-403959 US-PATENT-CLASS-73-194 US-PATENT-3,323,362	N71-10618*	c 09	NASA-CASE-XNP-03332 US-PATENT-APPL-SN-368123 US-PATENT-CLASS-313-63 US-PATENT-3,311,772	N71-10797*	c 14	NASA-CASE-XLE-01246 US-PATENT-APPL-SN-249537 US-PATENT-CLASS-324-61 US-PATENT-3,324,388
N70-42000*	c 05	NASA-CASE-XMS-03371 US-PATENT-APPL-SN-418931 US-PATENT-CLASS-73-432 US-PATENT-3,323,370	N71-10658*	c 15	NASA-CASE-XMS-03252 US-PATENT-APPL-SN-425362 US-PATENT-CLASS-60-54.5 US-PATENT-3,318,093	N71-10798*	c 09	NASA-CASE-XMS-00945 US-PATENT-APPL-SN-385530 US-PATENT-CLASS-330-22 US-PATENT-3,319,175
N70-42003*	c 32	NASA-CASE-XLA-02131 US-PATENT-APPL-SN-377777 US-PATENT-CLASS-73-90 US-PATENT-3,304,768	N71-10659*	c 09	NASA-CASE-XNP-01383 US-PATENT-APPL-SN-369336 US-PATENT-CLASS-324-77 US-PATENT-3,317,832	N71-10799*	c 15	NASA-CASE-XLA-01807 US-PATENT-APPL-SN-442558 US-PATENT-CLASS-287-189.36 US-PATENT-3,318,622
N70-42015*	c 31	NASA-CASE-XLA-01967 US-PATENT-APPL-SN-457875 US-PATENT-CLASS-244-135 US-PATENT-3,321,159	N71-10672*	c 15	NASA-CASE-XLA-01091 US-PATENT-APPL-SN-351259 US-PATENT-CLASS-264-102 US-PATENT-3,317,641	N71-10809*	c 15	NASA-CASE-XMF-02107 US-PATENT-APPL-SN-384811 US-PATENT-CLASS-140-124 US-PATENT-3,318,343
N70-42016*	c 02	NASA-CASE-XLA-01290 US-PATENT-APPL-SN-393451 US-PATENT-CLASS-244-42 US-PATENT-3,321,157	N71-10673*	c 09	NASA-CASE-XGS-01473 US-PATENT-APPL-SN-364867 US-PATENT-CLASS-307-88.5 US-PATENT-3,317,751	N71-11037*	c 02	NASA-CASE-XLA-06824-2 US-PATENT-APPL-SN-775966 US-PATENT-CLASS-244-31 US-PATENT-3,508,724
N70-42017*	c 15	NASA-CASE-XMS-04072 US-PATENT-APPL-SN-485960 US-PATENT-CLASS-30-228 US-PATENT-3,320,669	N71-10676*	c 07	NASA-CASE-XNP-03134 US-PATENT-APPL-SN-422095 US-PATENT-CLASS-333-21 US-PATENT-3,324,423	N71-11038*	c 02	NASA-CASE-XLA-06958 US-PATENT-APPL-SN-551815 US-PATENT-CLASS-244-44 US-PATENT-3,310,261
N70-42032*	c 10	NASA-CASE-XNP-02654 US-PATENT-APPL-SN-435387 US-PATENT-CLASS-307-88.5 US-PATENT-3,321,645	N71-10677*	c 09	NASA-CASE-XGS-01451 US-PATENT-APPL-SN-405629 US-PATENT-CLASS-318-138 US-PATENT-3,324,370	N71-11039*	c 02	NASA-CASE-MSC-12111-1 US-PATENT-APPL-SN-775877 US-PATENT-CLASS-244-23 US-PATENT-3,490,721
N70-42033*	c 15	NASA-CASE-XNP-02092 US-PATENT-APPL-SN-371856 US-PATENT-CLASS-156-345 US-PATENT-3,323,967	N71-10678*	c 21	NASA-CASE-XGS-01159 US-PATENT-APPL-SN-332313 US-PATENT-CLASS-250-203 US-PATENT-3,311,748	N71-11041* #	c 02	NASA-CASE-XLA-03659 US-PATENT-APPL-SN-444087 US-PATENT-CLASS-244-46 US-PATENT-3,270,989
N70-42034*	c 15	NASA-CASE-XNP-01412 US-PATENT-APPL-SN-426702 US-PATENT-CLASS-175-310 US-PATENT-3,321,034	N71-10728*	c 03	NASA-CASE-XNP-01464 US-PATENT-APPL-SN-430778 US-PATENT-CLASS-136-182 US-PATENT-3,317,352	N71-11043*	c 02	NASA-CASE-XLA-08801-1 US-PATENT-APPL-SN-710533 US-PATENT-CLASS-244-43 US-PATENT-3,493,197
N70-42073*	c 03	NASA-CASE-XFR-04104 US-PATENT-APPL-SN-476759 US-PATENT-CLASS-74-471 US-PATENT-3,323,386	N71-10746*	c 11	NASA-CASE-XMS-02977 US-PATENT-APPL-SN-416938 US-PATENT-CLASS-35-12 US-PATENT-3,281,963	N71-11049*	c 03	NASA-CASE-NPO-10109* US-PATENT-APPL-SN-701654 US-PATENT-CLASS-136-89 US-PATENT-3,532,551
N70-42074*	c 14	NASA-CASE-XLE-02998 US-PATENT-APPL-SN-516794 US-PATENT-CLASS-116-117 US-PATENT-3,323,484	N71-10747*	c 31	NASA-CASE-XMF-00442 US-PATENT-APPL-SN-202030 US-PATENT-CLASS-343-705 US-PATENT-3,277,486	N71-11050*	c 03	NASA-CASE-XNP-06506 US-PATENT-APPL-SN-577778 US-PATENT-CLASS-136-89 US-PATENT-3,446,676
N70-42075*	c 31	NASA-CASE-XMS-02677 US-PATENT-APPL-SN-472066 US-PATENT-CLASS-244-1 US-PATENT-3,321,154	N71-10748*	c 11	NASA-CASE-XFR-04147 US-PATENT-APPL-SN-476761 US-PATENT-CLASS-35-12 US-PATENT-3,281,965	N71-11051*	c 03	NASA-CASE-XNP-03378 US-PATENT-APPL-SN-360878 US-PATENT-CLASS-136-170 US-PATENT-3,282,740
N71-10500*	c 14	NASA-CASE-XLE-01609 US-PATENT-APPL-SN-438797 US-PATENT-CLASS-73-290 US-PATENT-3,326,043	N71-10771*	c 21	NASA-CASE-XNP-03914 US-PATENT-APPL-SN-468647 US-PATENT-CLASS-250-203 US-PATENT-3,317,731	N71-11052*	c 03	NASA-CASE-XLE-04526 US-PATENT-APPL-SN-640457 US-PATENT-CLASS-136-86 US-PATENT-3,507,704
N71-10560*	c 24	NASA-CASE-XLE-00808 US-PATENT-APPL-SN-307269 US-PATENT-CLASS-148-188 US-PATENT-3,310,443	N71-10772*	c 18	NASA-CASE-XLE-01765 US-PATENT-APPL-SN-316477 US-PATENT-CLASS-117-65.2 US-PATENT-3,317,341	N71-11053*	c 03	NASA-CASE-XGS-00886 US-PATENT-APPL-SN-319894 US-PATENT-CLASS-136-132 US-PATENT-3,282,739
N71-10574*	c 28	NASA-CASE-XLE-01902 US-PATENT-APPL-SN-485656 US-PATENT-CLASS-60-202 US-PATENT-3,324,659	N71-10773*	c 14	NASA-CASE-XLA-02605 US-PATENT-APPL-SN-459138 US-PATENT-CLASS-177-210 US-PATENT-3,316,991	N71-11055*	c 03	NASA-CASE-XMF-05843 US-PATENT-APPL-SN-666553 US-PATENT-CLASS-310-4 US-PATENT-3,509,386
N71-10577*	c 15	NASA-CASE-XLE-04677 US-PATENT-APPL-SN-447928 US-PATENT-CLASS-220-67 US-PATENT-3,326,407	N71-10774*	c 14	NASA-CASE-XLA-01131 US-PATENT-APPL-SN-322545 US-PATENT-CLASS-73-23 US-PATENT-3,312,101	N71-11056*	c 03	NASA-CASE-XNP-05821 US-PATENT-APPL-SN-545223 US-PATENT-CLASS-136-89 US-PATENT-3,493,437
N71-10578*	c 10	NASA-CASE-XMS-01554 US-PATENT-APPL-SN-414482 US-PATENT-CLASS-323-8 US-PATENT-3,325,723	N71-10775*	c 07	NASA-CASE-XLA-00901 US-PATENT-APPL-SN-269212 US-PATENT-CLASS-325-305 US-PATENT-3,311,832	N71-11057*	c 03	NASA-CASE-MSC-13112 US-PATENT-APPL-SN-765738 US-PATENT-CLASS-290-40 US-PATENT-3,508,070
N71-10582*	c 31	NASA-CASE-XLA-02132 US-PATENT-APPL-SN-453227 US-PATENT-CLASS-102-49 US-PATENT-3,286,630	N71-10776*	c 11	NASA-CASE-XLA-03127 US-PATENT-APPL-SN-447927 US-PATENT-CLASS-35-12 US-PATENT-3,281,964	N71-11058*	c 03	NASA-CASE-XGS-01475 US-PATENT-APPL-SN-344793 US-PATENT-CLASS-244-1 US-PATENT-3,459,391
N71-10604*	c 11	NASA-CASE-XMF-03248 US-PATENT-APPL-SN-377780 US-PATENT-CLASS-73-116 US-PATENT-3,310,980	N71-10777*	c 11	NASA-CASE-XLE-01533 US-PATENT-APPL-SN-334678 US-PATENT-CLASS-55-400 US-PATENT-3,282,035	N71-11189*	c 05	NASA-CASE-XFR-10856 US-PATENT-APPL-SN-626376 US-PATENT-CLASS-534-727 US-PATENT-3,502,074
N71-10607*	c 26	NASA-CASE-XLE-02792 US-PATENT-APPL-SN-352400 US-PATENT-CLASS-148-1.6 US-PATENT-3,311,510	N71-10778*	c 15	NASA-CASE-XNP-00710 US-PATENT-APPL-SN-271821 US-PATENT-CLASS-251-61 US-PATENT-3,317,180	N71-11190*	c 05	NASA-CASE-XMS-04935 US-PATENT-APPL-SN-518487 US-PATENT-CLASS-128-142.5 US-PATENT-3,502,074
N71-10608*	c 03	NASA-CASE-XGS-03505 US-PATENT-APPL-SN-498167 US-PATENT-CLASS-136-28 US-PATENT-3,311,502	N71-10779*	c 14	NASA-CASE-XMF-02307 US-PATENT-APPL-SN-422869 US-PATENT-CLASS-73-40.5 US-PATENT-3,316,752	N71-11193*	c 05	NASA-CASE-ARC-10043-1 US-PATENT-APPL-SN-676012 US-PATENT-CLASS-128-2.1 US-PATENT-3,508,541
N71-10609*	c 07	NASA-CASE-XGS-01223 US-PATENT-APPL-SN-319892 US-PATENT-CLASS-242-55.19	N71-10780*	c 28	NASA-CASE-XLA-01043 US-PATENT-APPL-SN-379768 US-PATENT-CLASS-60-225	N71-11194*	c 05	NASA-CASE-XLA-05332 US-PATENT-APPL-SN-757861 US-PATENT-CLASS-2-2.1 US-PATENT-3,534,407

N71-11195*	c 05	NASA-CASE-LAR-10007-1 US-PATENT-APPL-SN-770203 US-PATENT-CLASS-2-2.1	N71-12258*	c 03	NASA-CASE-XLA-00711 US-PATENT-APPL-SN-357334 US-PATENT-CLASS-89-1.7	N71-12506*	c 08	NASA-CASE-XNP-08832 US-PATENT-APPL-SN-681692 US-PATENT-CLASS-340-172.5
N71-11199*	c 05	NASA-CASE-XKS-02342 US-PATENT-APPL-SN-407603 US-PATENT-CLASS-182-191	N71-12259*	c 03	NASA-CASE-XLA-01396 US-PATENT-APPL-SN-357336 US-PATENT-CLASS-89-1.7	N71-12507*	c 08	NASA-CASE-XLA-01952 US-PATENT-APPL-SN-676386 US-PATENT-CLASS-340-324
N71-11202*	c 05	NASA-CASE-XFR-08403 US-PATENT-APPL-SN-704420 US-PATENT-CLASS-73-23	N71-12260*	c 03	NASA-CASE-XNP-01020 US-PATENT-APPL-SN-430780 US-PATENT-CLASS-60-97	N71-12513*	c 09	NASA-CASE-XGS-07801 US-PATENT-APPL-SN-640452 US-PATENT-CLASS-148-188
N71-11203*	c 05	NASA-CASE-XMS-09632-1 US-PATENT-APPL-SN-791693 US-PATENT-CLASS-128-142.5	N71-12335*	c 05	NASA-CASE-XMS-00784 US-PATENT-APPL-SN-358127 US-PATENT-CLASS-2-2.1	N71-12514*	c 09	NASA-CASE-XLA-07497 US-PATENT-APPL-SN-631848 US-PATENT-CLASS-307-252
N71-11207*	c 05	NASA-CASE-XLA-03213 US-PATENT-APPL-SN-621715 US-PATENT-CLASS-202-182	N71-12336*	c 05	NASA-CASE-XMS-05304 US-PATENT-APPL-SN-511567 US-PATENT-CLASS-340-174	N71-12515*	c 09	NASA-CASE-XNP-08836 US-PATENT-APPL-SN-668968 US-PATENT-CLASS-340-174
N71-11235*	c 06	NASA-CASE-XLA-03104 US-PATENT-APPL-SN-510155 US-PATENT-CLASS-260-78	N71-12341*	c 05	NASA-CASE-MFS-14671 US-PATENT-APPL-SN-723476 US-PATENT-CLASS-297-385	N71-12516*	c 09	NASA-CASE-XNP-09768 US-PATENT-APPL-SN-698629 US-PATENT-CLASS-307-243
N71-11236*	c 06	NASA-CASE-XMF-08651 US-PATENT-APPL-SN-593594 US-PATENT-CLASS-260-72.5	N71-12342*	c 05	NASA-CASE-XAC-05706 US-PATENT-APPL-SN-592694 US-PATENT-CLASS-325-143	N71-12517*	c 09	NASA-CASE-XAC-10608-1 US-PATENT-APPL-SN-710561 US-PATENT-CLASS-333-80
N71-11237*	c 06	NASA-CASE-XMF-10753 US-PATENT-APPL-SN-668751 US-PATENT-CLASS-260-46.5	N71-12343*	c 05	NASA-CASE-MSC-11253 US-PATENT-APPL-SN-695973 US-PATENT-CLASS-297-68	N71-12518*	c 09	NASA-CASE-XNP-09808 US-PATENT-APPL-SN-692471 US-PATENT-CLASS-200-61.42
N71-11238*	c 06	NASA-CASE-XLA-08802 US-PATENT-APPL-SN-640454 US-PATENT-CLASS-260-78	N71-12344*	c 05	NASA-CASE-XMS-09636 US-PATENT-APPL-SN-586330 US-PATENT-CLASS-2-2.1	N71-12519*	c 09	NASA-CASE-XMF-06519 US-PATENT-APPL-SN-656952 US-PATENT-CLASS-328-110
N71-11239*	c 06	NASA-CASE-XMF-08655 US-PATENT-APPL-SN-593593 US-PATENT-CLASS-260-72.5	N71-12345*	c 05	NASA-CASE-MSC-12086-1 US-PATENT-APPL-SN-812999 US-PATENT-CLASS-29-400	N71-12520*	c 09	NASA-CASE-NPO-10230 US-PATENT-APPL-SN-691735 US-PATENT-CLASS-307-229
N71-11240*	c 06	NASA-CASE-MFS-13994-1 US-PATENT-APPL-SN-715975 US-PATENT-CLASS-260-46.5	N71-12346*	c 05	NASA-CASE-XMS-04212-1 US-PATENT-APPL-SN-607461 US-PATENT-CLASS-128-2.1	N71-12521*	c 09	NASA-CASE-ARC-10037 US-PATENT-APPL-SN-679885 US-PATENT-CLASS-313-110
N71-11242*	c 06	NASA-CASE-XMF-08656 US-PATENT-APPL-SN-593605 US-PATENT-CLASS-260-2.5	N71-12351*	c 05	NASA-CASE-LAR-10056 US-PATENT-APPL-SN-674357 US-PATENT-CLASS-224-25	N71-12526*	c 09	NASA-CASE-MSC-12135-1 US-PATENT-APPL-SN-761404 US-PATENT-CLASS-317-31
N71-11243*	c 06	NASA-CASE-XMF-08652 US-PATENT-APPL-SN-593606 US-PATENT-CLASS-260-2	N71-12389*	c 07	NASA-CASE-XLA-01090 US-PATENT-APPL-SN-741824 US-PATENT-CLASS-250-199	N71-12539*	c 09	NASA-CASE-ERC-10552 US-PATENT-APPL-SN-720125 US-PATENT-CLASS-178-7.7
N71-11266*	c 07	NASA-CASE-XLA-03076 US-PATENT-APPL-SN-591004 US-PATENT-CLASS-325-42	N71-12390*	c 07	NASA-CASE-XER-09213 US-PATENT-APPL-SN-668302 US-PATENT-CLASS-332-9	N71-12540*	c 09	NASA-CASE-XNP-01058 US-PATENT-APPL-SN-313136 US-PATENT-CLASS-315-160
N71-11267*	c 07	NASA-CASE-XNP-10843 US-PATENT-APPL-SN-649358 US-PATENT-CLASS-325-363	N71-12391*	c 07	NASA-CASE-XMS-05454-1 US-PATENT-APPL-SN-771803 US-PATENT-CLASS-343-17.7	N71-12554*	c 10	NASA-CASE-NPO-10348 US-PATENT-APPL-SN-704668 US-PATENT-CLASS-324-95
N71-11281*	c 07	NASA-CASE-XNP-10830 US-PATENT-APPL-SN-692332 US-PATENT-CLASS-178-69.5	N71-12392*	c 07	NASA-CASE-XGS-01590 US-PATENT-APPL-SN-584067 US-PATENT-CLASS-178-88	N71-13410*	c 01	NASA-CASE-XLA-00755 US-PATENT-APPL-SN-247423 US-PATENT-CLASS-244-35
N71-11282*	c 07	NASA-CASE-XGS-02889 US-PATENT-APPL-SN-685748 US-PATENT-CLASS-329-104	N71-12396*	c 07	NASA-CASE-GSC-10452 US-PATENT-APPL-SN-797794 US-PATENT-CLASS-343-776	N71-13411*	c 01	NASA-CASE-XLA-05828 US-PATENT-APPL-SN-509460 US-PATENT-CLASS-235-61.6
N71-11284*	c 07	NASA-CASE-XLA-01552 US-PATENT-APPL-SN-332339 US-PATENT-CLASS-325-65	N71-12494*	c 08	NASA-CASE-XGS-04767 US-PATENT-APPL-SN-645584 US-PATENT-CLASS-307-296	N71-13421*	c 02	NASA-CASE-XFR-00756 US-PATENT-APPL-SN-212173 US-PATENT-CLASS-235-150.22
N71-11285*	c 07	NASA-CASE-NPO-10539 US-PATENT-APPL-SN-743429 US-PATENT-CLASS-343-779	N71-12500*	c 08	NASA-CASE-XNP-07040 US-PATENT-APPL-SN-649357 US-PATENT-CLASS-332-31	N71-13422*	c 02	NASA-CASE-XLA-06339 US-PATENT-APPL-SN-801336 US-PATENT-CLASS-244-76
N71-11298*	c 07	NASA-CASE-XMF-01160 US-PATENT-APPL-SN-310507 US-PATENT-CLASS-340-198	N71-12501*	c 08	NASA-CASE-XLA-00670 US-PATENT-APPL-SN-235162 US-PATENT-CLASS-340-347	N71-13461*	c 06	NASA-CASE-LAR-10180-1 US-PATENT-APPL-SN-709398 US-PATENT-CLASS-250-41.9
N71-11300*	c 07	NASA-CASE-XMS-07168 US-PATENT-APPL-SN-769788 US-PATENT-CLASS-178-6.6	N71-12502*	c 08	NASA-CASE-NPO-10112 US-PATENT-APPL-SN-673226 US-PATENT-CLASS-340-172.5	N71-13486*	c 09	NASA-CASE-MFS-20333 US-PATENT-APPL-SN-820965 US-PATENT-CLASS-307-149
N71-11766*	c 21	NASA-CASE-LAR-10403 US-PATENT-APPL-SN-676391 US-PATENT-CLASS-343-6.5	N71-12503*	c 08	NASA-CASE-NPO-10351 US-PATENT-APPL-SN-712065 US-PATENT-CLASS-328-37	N71-13518*	c 09	NASA-CASE-MSC-12178-1 US-PATENT-APPL-SN-845365 US-PATENT-CLASS-315-241
N71-12217* #	c 01	NASA-CASE-FRC-10063 US-PATENT-APPL-SN-21263 US-PATENT-CLASS-XLA-04451	N71-12504*	c 08	NASA-CASE-XMF-05835 US-PATENT-APPL-SN-627257 US-PATENT-CLASS-340-174	N71-13521*	c 09	NASA-CASE-XKS-09348 US-PATENT-APPL-SN-677505 US-PATENT-CLASS-343-703
N71-12243*	c 02	NASA-CASE-XLA-04451 US-PATENT-APPL-SN-457876 US-PATENT-CLASS-244-45	N71-12505*	c 08	NASA-CASE-XNP-05415 US-PATENT-APPL-SN-578932	N71-13522*	c 09	NASA-CASE-LEW-10364-1 US-PATENT-APPL-SN-822518

		US-PATENT-CLASS-317-258				US-PATENT-CLASS-350-3.5				US-PATENT-CLASS-60-35.6
		US-PATENT-3,535,602				US-PATENT-3,535,013				US-PATENT-3,270,503
N71-13530*	c 09	NASA-CASE-XNP-00384	N71-15562*	c 25	NASA-CASE-XLA-03374	N71-15625*	c 33	NASA-CASE-XLE-01399		
		US-PATENT-APPL-SN-180392			US-PATENT-APPL-SN-793770			US-PATENT-APPL-SN-320233		
		US-PATENT-CLASS-324-132			US-PATENT-CLASS-315-111			US-PATENT-CLASS-13-26		
		US-PATENT-3,263,171			US-PATENT-3,535,586			US-PATENT-3,263,016		
N71-13531*	c 09	NASA-CASE-MS-12033-1	N71-15563*	c 28	NASA-CASE-XLA-02865	N71-15634*	c 27	NASA-CASE-XLE-01988		
		US-PATENT-APPL-SN-602828			US-PATENT-APPL-SN-416946			US-PATENT-APPL-SN-308918		
		US-PATENT-CLASS-330-11			US-PATENT-CLASS-244-53			US-PATENT-CLASS-60-35.6		
		US-PATENT-3,526,845			US-PATENT-3,270,990			US-PATENT-3,258,912		
N71-13537*	c 10	NASA-CASE-XNP-08274	N71-15565*	c 16	NASA-CASE-MFS-20074	N71-15635*	c 27	NASA-CASE-XLE-01182		
		US-PATENT-APPL-SN-730703			US-PATENT-APPL-SN-801312			US-PATENT-APPL-SN-411949		
		US-PATENT-CLASS-73-382			US-PATENT-CLASS-350-3.5			US-PATENT-CLASS-60-39.46		
		US-PATENT-3,520,190			US-PATENT-3,535,014			US-PATENT-3,258,918		
N71-13545*	c 10	NASA-CASE-LAR-10774	N71-15566*	c 31	NASA-CASE-XKS-08012-2	N71-15637*	c 31	NASA-CASE-XLE-01640		
		US-PATENT-APPL-SN-802820			US-PATENT-APPL-SN-874958			US-PATENT-APPL-SN-473535		
		US-PATENT-CLASS-73-1			US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-60-35.6		
		US-PATENT-3,534,584			US-PATENT-3,535,683			US-PATENT-3,270,504		
N71-13789*	c 15	NASA-CASE-XLA-01141	N71-15567*	c 16	NASA-CASE-ERC-10017	N71-15641*	c 33	NASA-CASE-XNP-09802		
		US-PATENT-APPL-SN-353632			US-PATENT-APPL-SN-677506			US-PATENT-APPL-SN-673229		
		US-PATENT-CLASS-102-49			US-PATENT-CLASS-350-3.5			US-PATENT-CLASS-73-190		
		US-PATENT-3,263,610			US-PATENT-3,535,012			US-PATENT-3,531,989		
N71-13958*	c 21	NASA-CASE-GSC-10087-2	N71-15568*	c 33	NASA-CASE-XLE-09475-1	N71-15642*	c 21	NASA-CASE-XGS-03431		
		US-PATENT-APPL-SN-701744			US-PATENT-APPL-SN-710945			US-PATENT-APPL-SN-588635		
		US-PATENT-CLASS-343-112			US-PATENT-CLASS-136-228			US-PATENT-CLASS-250-203		
		US-PATENT-3,495,260			US-PATENT-3,535,165			US-PATENT-3,488,504		
N71-14014*	c 18	NASA-CASE-GSC-10072	N71-15571*	c 15	NASA-CASE-XLA-07911	N71-15643*	c 31	NASA-CASE-NPO-10311		
		US-PATENT-APPL-SN-686296			US-PATENT-APPL-SN-660572			US-PATENT-APPL-SN-725475		
		US-PATENT-CLASS-106-15			US-PATENT-CLASS-33-207			US-PATENT-CLASS-73-116		
		US-PATENT-3,493,401			US-PATENT-3,492,739			US-PATENT-3,534,597		
N71-14032*	c 33	NASA-CASE-XLE-05913	N71-15582*	c 21	NASA-CASE-XLA-01163	N71-15644*	c 17	NASA-CASE-XLE-00726		
		US-PATENT-APPL-SN-551933			US-PATENT-APPL-SN-405632			US-PATENT-APPL-SN-355126		
		US-PATENT-CLASS-117-106			US-PATENT-CLASS-60-35.55			US-PATENT-CLASS-75-170		
		US-PATENT-3,490,939			US-PATENT-3,270,505			US-PATENT-3,271,140		
N71-14035*	c 33	NASA-CASE-XLE-03307	N71-15583*	c 21	NASA-CASE-XMF-01598	N71-15647*	c 31	NASA-CASE-XGS-01143		
		US-PATENT-APPL-SN-613979			US-PATENT-APPL-SN-333770			US-PATENT-APPL-SN-349781		
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-244-1			US-PATENT-CLASS-60-35.6		
		US-PATENT-3,490,718			US-PATENT-3,270,985			US-PATENT-3,270,501		
N71-14043*	c 28	NASA-CASE-XLE-01124	N71-15597*	c 15	NASA-CASE-XLE-08917	N71-15658*	c 28	NASA-CASE-XLE-00409		
		US-PATENT-APPL-SN-312269			US-PATENT-APPL-SN-662829			US-PATENT-APPL-SN-249539		
		US-PATENT-CLASS-60-35.5			US-PATENT-CLASS-113-116			US-PATENT-CLASS-29-157		
		US-PATENT-3,238,715			US-PATENT-3,490,405			US-PATENT-3,254,395		
N71-14044*	c 28	NASA-CASE-XGS-08729	N71-15598*	c 14	NASA-CASE-XAC-00812	N71-15659*	c 28	NASA-CASE-XLE-05689		
		US-PATENT-APPL-SN-667637			US-PATENT-APPL-SN-255132			US-PATENT-APPL-SN-491845		
		US-PATENT-CLASS-60-200			US-PATENT-CLASS-73-341			US-PATENT-CLASS-60-35.6		
		US-PATENT-3,490,235			US-PATENT-3,238,777			US-PATENT-3,254,487		
N71-14058*	c 28	NASA-CASE-MS-12139-1	N71-15599*	c 14	NASA-CASE-XNP-04161	N71-15660*	c 28	NASA-CASE-XMF-00968		
		US-PATENT-APPL-SN-797796			US-PATENT-APPL-SN-568356			US-PATENT-APPL-SN-339825		
		US-PATENT-CLASS-103-37			US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-60-35.6		
		US-PATENT-3,492,947			US-PATENT-3,444,375			US-PATENT-3,270,499		
N71-14090*	c 27	NASA-CASE-LAR-10173-1	N71-15600*	c 14	NASA-CASE-XKS-06250	N71-15661*	c 28	NASA-CASE-XLE-02066		
		US-PATENT-APPL-SN-758942			US-PATENT-APPL-SN-649075			US-PATENT-APPL-SN-426455		
		US-PATENT-CLASS-149-19			US-PATENT-CLASS-73-97			US-PATENT-CLASS-60-35.5		
		US-PATENT-3,492,176			US-PATENT-3,492,862			US-PATENT-3,262,262		
N71-14132*	c 21	NASA-CASE-XLA-05464	N71-15604*	c 14	NASA-CASE-NPO-10337	N71-15663*	c 31	NASA-CASE-XLA-00256		
		US-PATENT-APPL-SN-656995			US-PATENT-APPL-SN-714296			US-PATENT-APPL-SN-333766		
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-350-58			US-PATENT-CLASS-244-1		
		US-PATENT-3,493,194			US-PATENT-3,488,103			US-PATENT-3,262,655		
N71-14159*	c 21	NASA-CASE-XGS-04393	N71-15605*	c 14	NASA-CASE-GSC-10062	N71-15664*	c 31	NASA-CASE-XLA-01332		
		US-PATENT-APPL-SN-700142			US-PATENT-APPL-SN-658955			US-PATENT-APPL-SN-250974		
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-350-285			US-PATENT-CLASS-220-15		
		US-PATENT-3,490,719			US-PATENT-3,493,294			US-PATENT-3,270,908		
N71-14354*	c 26	NASA-CASE-ERC-10138	N71-15606*	c 15	NASA-CASE-XNP-06031	N71-15673*	c 23	NASA-CASE-XMS-01620		
		US-PATENT-APPL-SN-821586			US-PATENT-APPL-SN-590144			US-PATENT-APPL-SN-357340		
		US-PATENT-CLASS-225-2			US-PATENT-CLASS-250-52			US-PATENT-CLASS-248-358		
		US-PATENT-3,493,155			US-PATENT-3,493,746			US-PATENT-3,243,154		
N71-14932*	c 15	NASA-CASE-LEW-11531	N71-15607*	c 15	NASA-CASE-XMF-03287	N71-15674*	c 31	NASA-CASE-XLA-03691		
		US-PATENT-APPL-SN-643332			US-PATENT-APPL-SN-658956			US-PATENT-APPL-SN-667625		
		US-PATENT-CLASS-219-72			US-PATENT-CLASS-228-7			US-PATENT-CLASS-244-1		
		US-PATENT-3,493,711			US-PATENT-3,443,732			US-PATENT-3,534,924		
N71-14996*	c 14	NASA-CASE-XLA-00936	N71-15608*	c 15	NASA-CASE-NPO-10117	N71-15675*	c 31	NASA-CASE-XMF-03169		
		US-PATENT-APPL-SN-282818			US-PATENT-APPL-SN-668238			US-PATENT-APPL-SN-375405		
		US-PATENT-CLASS-73-170			US-PATENT-CLASS-138-42			US-PATENT-CLASS-89-1.5		
		US-PATENT-3,238,774			US-PATENT-3,493,012			US-PATENT-3,262,365		
N71-15467*	c 23	NASA-CASE-XNP-03796	N71-15609*	c 15	NASA-CASE-XMF-04709	N71-15676*	c 31	NASA-CASE-XGS-05579		
		US-PATENT-APPL-SN-453231			US-PATENT-APPL-SN-683507			US-PATENT-APPL-SN-719869		
		US-PATENT-CLASS-62-6			US-PATENT-CLASS-137-81.5			US-PATENT-CLASS-244-1		
		US-PATENT-3,260,055			US-PATENT-3,493,003			US-PATENT-3,534,925		
N71-15468*	c 17	NASA-CASE-LEW-10393-1	N71-15610*	c 15	NASA-CASE-XLE-01604-2	N71-15687*	c 31	NASA-CASE-XLA-05369		
		US-PATENT-APPL-SN-644799			US-PATENT-APPL-SN-683613			US-PATENT-APPL-SN-765123		
		US-PATENT-CLASS-75-202			US-PATENT-CLASS-117-50			US-PATENT-CLASS-102-49.5		
		US-PATENT-3,535,110			US-PATENT-3,493,415			US-PATENT-3,534,686		
N71-15469*	c 18	NASA-CASE-ARC-10099-1	N71-15620*	c 14	NASA-CASE-XLA-01926	N71-15688*	c 18	NASA-CASE-XNP-03459-2		
		US-PATENT-APPL-SN-704224			US-PATENT-APPL-SN-784521			US-PATENT-APPL-SN-681942		
		US-PATENT-CLASS-106-15			US-PATENT-CLASS-340-57			US-PATENT-CLASS-260-404.5		
		US-PATENT-3,535,130			US-PATENT-3,491,335			US-PATENT-3,535,352		
N71-15545*	c 18	NASA-CASE-XMS-09691-1	N71-15621*	c 14	NASA-CASE-XNP-09572	N71-15689*	c 31	NASA-CASE-MFS-14685		
		US-PATENT-APPL-SN-738119			US-PATENT-APPL-SN-660841			US-PATENT-APPL-SN-752947		
		US-PATENT-CLASS-8-94.12			US-PATENT-CLASS-35-10.2			US-PATENT-CLASS-180-118		
		US-PATENT-3,526,473			US-PATENT-3,493,665			US-PATENT-CLASS-180-121		
N71-15550*	c 16	NASA-CASE-XNP-05219	N71-15622*	c 14	NASA-CASE-XNP-04111	N71-15692*	c 31	NASA-CASE-XLA-01339		
		US-PATENT-APPL-SN-336103			US-PATENT-APPL-SN-560969			US-PATENT-APPL-SN-373591		
		US-PATENT-CLASS-330-4			US-PATENT-CLASS-350-213			US-PATENT-CLASS-102-49		
		US-PATENT-3,299,364			US-PATENT-3,493,291			US-PATENT-3,260,204		
N71-15551*	c 16	NASA-CASE-ERC-10019	N71-15623*	c 33	NASA-CASE-XMS-01816	N71-15871*	c 15	NASA-CASE-XMF-02039		
		US-PATENT-APPL-SN-677508			US-PATENT-APPL-SN-425364					

		US-PATENT-APPL-SN-434143			US-PATENT-APPL-SN-304749			US-PATENT-APPL-SN-701732
		US-PATENT-CLASS-219-131			US-PATENT-CLASS-35-29			US-PATENT-CLASS-250-41.9
		US-PATENT-3,271,558			US-PATENT-3,270,441			US-PATENT-3,532,880
N71-15906*	c 15	NASA-CASE-XNP-00920	N71-16030*	c 10	NASA-CASE-XMF-01096	N71-16098*	c 23	NASA-CASE-XAC-03107
		US-PATENT-APPL-SN-329331			US-PATENT-APPL-SN-307270			US-PATENT-APPL-SN-538168
		US-PATENT-CLASS-62-2			US-PATENT-CLASS-318-376			US-PATENT-CLASS-73-505
		US-PATENT-3,270,512			US-PATENT-3,271,649			US-PATENT-3,455,171
N71-15907*	c 07	NASA-CASE-XNP-01057	N71-16031*	c 12	NASA-CASE-XMS-01445	N71-16099*	c 23	NASA-CASE-XGS-07514
		US-PATENT-APPL-SN-301683			US-PATENT-APPL-SN-385526			US-PATENT-APPL-SN-640453
		US-PATENT-CLASS-343-786			US-PATENT-CLASS-137-615			US-PATENT-CLASS-328-1
		US-PATENT-3,305,870			US-PATENT-3,308,848			US-PATENT-3,509,469
N71-15908*	c 08	NASA-CASE-XLA-02705	N71-16037*	c 26	NASA-CASE-XGS-05718	N71-16100*	c 23	NASA-CASE-XGS-05715
		US-PATENT-APPL-SN-473537			US-PATENT-APPL-SN-584071			US-PATENT-APPL-SN-668257
		US-PATENT-CLASS-129-16.7			US-PATENT-CLASS-29-472.9			US-PATENT-CLASS-250-233
		US-PATENT-3,310,054			US-PATENT-3,452,423			US-PATENT-3,532,894
N71-15909*	c 10	NASA-CASE-XAC-03777	N71-16042*	c 10	NASA-CASE-XAC-00942	N71-16101*	c 23	NASA-CASE-XNP-08883
		US-PATENT-APPL-SN-484489			US-PATENT-APPL-SN-310506			US-PATENT-APPL-SN-617021
		US-PATENT-CLASS-200-6			US-PATENT-CLASS-307-88.5			US-PATENT-CLASS-356-117
		US-PATENT-3,283,088			US-PATENT-3,277,314			US-PATENT-3,520,617
N71-15910*	c 10	NASA-CASE-XGS-00823	N71-16044*	c 17	NASA-CASE-XGS-06306	N71-16102*	c 31	NASA-CASE-XGS-09190
		US-PATENT-APPL-SN-336607			US-PATENT-APPL-SN-685473			US-PATENT-APPL-SN-647298
		US-PATENT-CLASS-307-88.5			US-PATENT-CLASS-156-3			US-PATENT-CLASS-343-915
		US-PATENT-3,283,175			US-PATENT-3,532,568			US-PATENT-3,521,290
N71-15918*	c 15	NASA-CASE-XMS-02383	N71-16046*	c 18	NASA-CASE-GSC-10007	N71-16103*	c 32	NASA-CASE-LAR-10317-1
		US-PATENT-APPL-SN-299042			US-PATENT-APPL-SN-627599			US-PATENT-APPL-SN-739927
		US-PATENT-CLASS-140-123			US-PATENT-CLASS-117-201			US-PATENT-CLASS-137-582
		US-PATENT-3,299,913			US-PATENT-3,532,538			US-PATENT-3,508,578
N71-15922*	c 15	NASA-CASE-XGS-01971	N71-16052*	c 15	NASA-CASE-XLE-02999	N71-16104*	c 33	NASA-CASE-XLE-00785
		US-PATENT-APPL-SN-353645			US-PATENT-APPL-SN-431235			US-PATENT-APPL-SN-666554
		US-PATENT-CLASS-85-33			US-PATENT-CLASS-29-148.4			US-PATENT-CLASS-60-108
		US-PATENT-3,262,351			US-PATENT-3,262,186			US-PATENT-3,508,402
N71-15925*	c 11	NASA-CASE-XLA-00378	N71-16057*	c 10	NASA-CASE-XNP-01193	N71-16105*	c 18	NASA-CASE-XLE-08511-2
		US-PATENT-APPL-SN-266107			US-PATENT-APPL-SN-366226			US-PATENT-APPL-SN-711921
		US-PATENT-CLASS-219-10.49			US-PATENT-CLASS-324-57			US-PATENT-CLASS-117-119
		US-PATENT-3,238,345			US-PATENT-3,277,366			US-PATENT-3,508,955
N71-15926*	c 11	NASA-CASE-XLA-00939	N71-16058*	c 10	NASA-CASE-XMF-01097	N71-16106*	c 32	NASA-CASE-XLA-04605
		US-PATENT-APPL-SN-309354			US-PATENT-APPL-SN-290873			US-PATENT-APPL-SN-619519
		US-PATENT-CLASS-73-147			US-PATENT-CLASS-340-227			US-PATENT-CLASS-137-582
		US-PATENT-3,276,251			US-PATENT-3,277,458			US-PATENT-3,443,584
N71-15960*	c 11	NASA-CASE-XAC-00731	N71-16073*	c 25	NASA-CASE-XAC-05695	N71-16124*	c 18	NASA-CASE-XMF-05279
		US-PATENT-APPL-SN-232318			US-PATENT-APPL-SN-634038			US-PATENT-APPL-SN-617774
		US-PATENT-CLASS-220-89			US-PATENT-CLASS-324-34			US-PATENT-CLASS-106-88
		US-PATENT-3,145,874			US-PATENT-3,517,302			US-PATENT-3,508,940
N71-15962*	c 14	NASA-CASE-XGS-01587	N71-16075*	c 15	NASA-CASE-XLA-00284	N71-16210*	c 18	NASA-CASE-XNP-08837
		US-PATENT-APPL-SN-298799			US-PATENT-APPL-SN-240760			US-PATENT-APPL-SN-691736
		US-PATENT-CLASS-324-43			US-PATENT-CLASS-117-69			US-PATENT-CLASS-204-20
		US-PATENT-3,258,687			US-PATENT-3,264,135			US-PATENT-3,526,580
N71-15966*	c 15	NASA-CASE-XLE-00953	N71-16076*	c 15	NASA-CASE-XLE-00106	N71-16212*	c 23	NASA-CASE-NPO-10250
		US-PATENT-APPL-SN-336320			US-PATENT-APPL-SN-629759			US-PATENT-APPL-SN-736848
		US-PATENT-CLASS-22-200			US-PATENT-CLASS-25-156			US-PATENT-CLASS-149-1
		US-PATENT-3,237,253			US-PATENT-2,944,316			US-PATENT-3,516,879
N71-15967*	c 15	NASA-CASE-XLE-00703	N71-16077*	c 15	NASA-CASE-XLA-00302	N71-16213*	c 24	NASA-CASE-XGS-06628
		US-PATENT-APPL-SN-271822			US-PATENT-APPL-SN-284266			US-PATENT-APPL-SN-665680
		US-PATENT-CLASS-137-13			US-PATENT-CLASS-117-46			US-PATENT-CLASS-315-111
		US-PATENT-3,270,756			US-PATENT-3,271,181			US-PATENT-3,509,419
N71-15968*	c 15	NASA-CASE-XLE-00586	N71-16078*	c 15	NASA-CASE-XGS-00824	N71-16221*	c 31	NASA-CASE-XLA-05906
		US-PATENT-APPL-SN-317391			US-PATENT-APPL-SN-379072			US-PATENT-APPL-SN-777766
		US-PATENT-CLASS-55-160			US-PATENT-CLASS-89-1			US-PATENT-CLASS-73-432
		US-PATENT-3,257,780			US-PATENT-3,309,961			US-PATENT-3,526,139
N71-15969*	c 14	NASA-CASE-XMF-01099	N71-16079*	c 15	NASA-CASE-XLA-00415	N71-16222*	c 31	NASA-CASE-MFS-11133
		US-PATENT-APPL-SN-73367			US-PATENT-APPL-SN-314074			US-PATENT-APPL-SN-693419
		US-PATENT-CLASS-73-517			US-PATENT-CLASS-233-11			US-PATENT-CLASS-244-1
		US-PATENT-3,261,210			US-PATENT-3,276,679			US-PATENT-3,508,723
N71-15974*	c 32	NASA-CASE-XMS-06782	N71-16080*	c 31	NASA-CASE-MSC-12049	N71-16223*	c 27	NASA-CASE-MFS-12750
		US-PATENT-APPL-SN-691739			US-PATENT-APPL-SN-693420			US-PATENT-APPL-SN-806149
		US-PATENT-CLASS-338-5			US-PATENT-CLASS-52-3			US-PATENT-CLASS-73-432
		US-PATENT-3,464,049			US-PATENT-3,465,482			US-PATENT-3,526,140
N71-15978*	c 23	NASA-CASE-XGS-00373	N71-16081*	c 31	NASA-CASE-XGS-03351	N71-16224*	c 28	NASA-CASE-MFS-11497
		US-PATENT-APPL-SN-105518			US-PATENT-APPL-SN-472747			US-PATENT-APPL-SN-730733
		US-PATENT-CLASS-161-189			US-PATENT-CLASS-244-31			US-PATENT-CLASS-239-265.43
		US-PATENT-3,276,946			US-PATENT-3,276,726			US-PATENT-3,526,365
N71-15986*	c 15	NASA-CASE-XMF-03498	N71-16085*	c 31	NASA-CASE-XLA-09881	N71-16277*	c 33	NASA-CASE-XMS-04268
		US-PATENT-APPL-SN-396443			US-PATENT-APPL-SN-710562			US-PATENT-APPL-SN-516160
		US-PATENT-CLASS-29-155.55			US-PATENT-CLASS-244-138			US-PATENT-CLASS-165-133
		US-PATENT-3,258,831			US-PATENT-3,520,503			US-PATENT-3,502,141
N71-15990*	c 30	NASA-CASE-XAC-08494	N71-16086*	c 09	NASA-CASE-XLE-02038	N71-16278*	c 33	NASA-CASE-XMF-04237
		US-PATENT-APPL-SN-690998			US-PATENT-APPL-SN-349782			US-PATENT-APPL-SN-539237
		US-PATENT-CLASS-356-74			US-PATENT-CLASS-73-147			US-PATENT-CLASS-219-364
		US-PATENT-3,532,428			US-PATENT-3,273,388			US-PATENT-3,517,162
N71-15992*	c 14	NASA-CASE-XGS-01052	N71-16087*	c 02	NASA-CASE-XAC-02058	N71-16281*	c 20	NASA-CASE-XLA-02081
		US-PATENT-APPL-SN-314572			US-PATENT-APPL-SN-342572			US-PATENT-APPL-SN-522795
		US-PATENT-CLASS-73-15			US-PATENT-CLASS-244-1			US-PATENT-CLASS-73-189
		US-PATENT-3,242,716			US-PATENT-3,276,722			US-PATENT-3,507,150
N71-16014*	c 14	NASA-CASE-XLE-00820	N71-16088*	c 07	NASA-CASE-XGS-01022	N71-16340*	c 20	NASA-CASE-XMF-14032
		US-PATENT-APPL-SN-228569			US-PATENT-APPL-SN-331323			US-PATENT-APPL-SN-679862
		US-PATENT-CLASS-324-32			US-PATENT-CLASS-325-4			US-PATENT-CLASS-250-209
		US-PATENT-3,283,241			US-PATENT-3,277,373			US-PATENT-3,501,641
N71-16025*	c 17	NASA-CASE-XLE-02991	N71-16089*	c 09	NASA-CASE-XAC-02405	N71-16341*	c 23	NASA-CASE-XGS-05291
		US-PATENT-APPL-SN-375401			US-PATENT-APPL-SN-433821			US-PATENT-APPL-SN-553891
		US-PATENT-CLASS-75-170			US-PATENT-CLASS-200-6			US-PATENT-CLASS-356-209
		US-PATENT-3,276,865			US-PATENT-3,271,532			US-PATENT-3,504,983
N71-16026*	c 17	NASA-CASE-XLE-02082	N71-16090*	c 30	NASA-CASE-GSC-10083-1	N71-16345*	c 31	NASA-CASE-XMF-05344
		US-PATENT-APPL-SN-360180			US-PATENT-APPL-SN-641431			US-PATENT-APPL-SN-702396
		US-PATENT-CLASS-75-171			US-PATENT-CLASS-343-6			US-PATENT-CLASS-244-1
		US-PATENT-3,276,866			US-PATENT-3,471,856			US-PATENT-3,520,496
N71-16028*	c 11	NASA-CASE-XLA-01787	N71-16095*	c 24	NASA-CASE-XAC-05506-1	N71-16346*	c 31	NASA-CASE-XMS-03613

		US-PATENT-APPL-SN-802816			US-PATENT-APPL-SN-270118	N71-17685*	c 15	NASA-CASE-NPO-10034
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-230-162			US-PATENT-APPL-SN-668241
		US-PATENT-CLASS-3,526,372			US-PATENT-CLASS-3,309,012			US-PATENT-CLASS-339-17
N71-16348*	c 27	NASA-CASE-MSC-12280	N71-17626*	c 14	NASA-CASE-LAR-10274-1			US-PATENT-CLASS-3,464,051
		US-PATENT-APPL-SN-372648			US-PATENT-APPL-SN-717052	N71-17686*	c 15	NASA-CASE-MFS-20586
		US-PATENT-CLASS-250-43.5			US-PATENT-CLASS-188-1			US-PATENT-APPL-SN-688868
		US-PATENT-CLASS-3,501,632			US-PATENT-CLASS-3,491,857			US-PATENT-CLASS-29-428
N71-16355*	c 23	NASA-CASE-XGS-05534	N71-17627*	c 14	NASA-CASE-XGS-03532			US-PATENT-CLASS-3,526,030
		US-PATENT-APPL-SN-578925			US-PATENT-APPL-SN-538913	N71-17687*	c 15	NASA-CASE-XLA-04143
		US-PATENT-CLASS-23-253			US-PATENT-CLASS-356-106			US-PATENT-APPL-SN-628246
		US-PATENT-CLASS-3,520,660			US-PATENT-CLASS-3,488,123			US-PATENT-CLASS-156-510
N71-16356*	c 33	NASA-CASE-NPO-10158	N71-17628*	c 15	NASA-CASE-MFS-10340			US-PATENT-CLASS-3,508,999
		US-PATENT-APPL-SN-730702			US-PATENT-APPL-SN-716734	N71-17688*	c 15	NASA-CASE-XLE-09527
		US-PATENT-CLASS-73-343			US-PATENT-CLASS-225-1			US-PATENT-APPL-SN-686344
		US-PATENT-CLASS-3,526,134			US-PATENT-CLASS-3,507,425			US-PATENT-CLASS-29-148.4
N71-16357*	c 33	NASA-CASE-NPO-10138	N71-17629*	c 31	NASA-CASE-XLE-03583			US-PATENT-CLASS-3,500,525
		US-PATENT-APPL-SN-759457			US-PATENT-APPL-SN-400617	N71-17691*	c 31	NASA-CASE-XLA-00937
		US-PATENT-CLASS-236-1			US-PATENT-CLASS-244-3.22			US-PATENT-APPL-SN-393461
		US-PATENT-CLASS-3,526,359			US-PATENT-CLASS-3,276,376			US-PATENT-CLASS-244-3.14
N71-16365*	c 23	NASA-CASE-XNP-08840	N71-17631*	c 12	NASA-CASE-NPO-10122			US-PATENT-CLASS-3,310,258
		US-PATENT-APPL-SN-649360			US-PATENT-APPL-SN-710949	N71-17692*	c 15	NASA-CASE-MFS-14772
		US-PATENT-CLASS-356-36			US-PATENT-CLASS-60-217			US-PATENT-APPL-SN-774151
		US-PATENT-CLASS-3,526,460			US-PATENT-CLASS-3,534,555			US-PATENT-CLASS-74-63
N71-16392*	c 27	NASA-CASE-XNP-09744	N71-17645*	c 32	NASA-CASE-XNP-01153			US-PATENT-CLASS-3,529,480
		US-PATENT-APPL-SN-685750			US-PATENT-APPL-SN-336608	N71-17693*	c 15	NASA-CASE-NPO-10064
		US-PATENT-CLASS-60-39.47			US-PATENT-CLASS-73-88			US-PATENT-APPL-SN-668755
		US-PATENT-CLASS-3,507,114			US-PATENT-CLASS-3,273,381			US-PATENT-CLASS-244-1
N71-16393*	c 17	NASA-CASE-NPO-10271	N71-17647*	c 15	NASA-CASE-XMF-01667			US-PATENT-CLASS-3,501,112
		US-PATENT-APPL-SN-763869			US-PATENT-APPL-SN-577115	N71-17694*	c 15	NASA-CASE-XNP-08897
		US-PATENT-CLASS-21-207			US-PATENT-CLASS-118-11			US-PATENT-APPL-SN-640450
		US-PATENT-CLASS-3,529,928			US-PATENT-CLASS-3,502,051			US-PATENT-CLASS-318-22
N71-16428*	c 32	NASA-CASE-XLA-03135	N71-17648*	c 15	NASA-CASE-MSC-12116-1			US-PATENT-CLASS-3,501,683
		US-PATENT-APPL-SN-582171			US-PATENT-APPL-SN-768336	N71-17696*	c 15	NASA-CASE-XLA-05100
		US-PATENT-CLASS-73-71.4			US-PATENT-CLASS-251-358			US-PATENT-APPL-SN-724551
		US-PATENT-CLASS-3,503,251			US-PATENT-CLASS-3,508,739			US-PATENT-CLASS-73-103
N71-16894*	c 12	NASA-CASE-XLA-02079	N71-17649*	c 15	NASA-CASE-MFS-11132			US-PATENT-CLASS-3,487,680
		US-PATENT-APPL-SN-435756			US-PATENT-APPL-SN-744910	N71-17701*	c 14	NASA-CASE-NPO-10144
		US-PATENT-CLASS-188-87			US-PATENT-CLASS-248-360			US-PATENT-APPL-SN-688805
		US-PATENT-CLASS-3,310,138			US-PATENT-CLASS-3,526,382			US-PATENT-CLASS-73-29
N71-17569*	c 12	NASA-CASE-MSC-12084-1	N71-17650*	c 15	NASA-CASE-XMF-05114			US-PATENT-CLASS-3,534,585
		US-PATENT-APPL-SN-762438			US-PATENT-APPL-SN-637882	N71-17705*	c 06	NASA-CASE-XGS-05532
		US-PATENT-CLASS-73-204			US-PATENT-CLASS-29-517			US-PATENT-APPL-SN-570093
		US-PATENT-CLASS-3,500,686			US-PATENT-CLASS-3,507,034			US-PATENT-CLASS-195-99
N71-17573*	c 12	NASA-CASE-LAR-10323-1	N71-17651*	c 15	NASA-CASE-XLE-03803-2			US-PATENT-CLASS-3,423,290
		US-PATENT-APPL-SN-738314			US-PATENT-APPL-SN-669336	N71-17729*	c 31	NASA-CASE-XAC-01591
		US-PATENT-CLASS-73-45.5			US-PATENT-CLASS-156-172			US-PATENT-APPL-SN-385527
		US-PATENT-CLASS-3,516,284			US-PATENT-CLASS-3,535,179			US-PATENT-CLASS-244-1
N71-17574*	c 14	NASA-CASE-XGS-04993	N71-17652*	c 15	NASA-CASE-XLE-05079			US-PATENT-CLASS-3,282,532
		US-PATENT-APPL-SN-577775			US-PATENT-APPL-SN-601228	N71-17730*	c 31	NASA-CASE-XMF-01543
		US-PATENT-CLASS-96-49			US-PATENT-CLASS-310-93			US-PATENT-APPL-SN-402365
		US-PATENT-CLASS-3,458,313			US-PATENT-CLASS-3,493,797			US-PATENT-CLASS-102-49
N71-17575*	c 14	NASA-CASE-XMF-06531	N71-17653*	c 15	NASA-CASE-ARC-10140-1			US-PATENT-CLASS-3,286,629
		US-PATENT-APPL-SN-732917			US-PATENT-APPL-SN-783379	N71-17788*	c 30	NASA-CASE-XGS-00783
		US-PATENT-CLASS-204-195			US-PATENT-CLASS-24-211			US-PATENT-APPL-SN-372438
		US-PATENT-CLASS-3,509,034			US-PATENT-CLASS-85-3			US-PATENT-CLASS-73-432
N71-17578*	c 12	NASA-CASE-MFS-10412			US-PATENT-CLASS-3,534,650			US-PATENT-CLASS-3,286,531
		US-PATENT-APPL-SN-701635	N71-17654*	c 15	NASA-CASE-XNP-09702	N71-17802*	c 23	NASA-CASE-XLE-00454
		US-PATENT-CLASS-137-81.5			US-PATENT-APPL-SN-730734			US-PATENT-APPL-SN-295855
		US-PATENT-CLASS-3,520,317			US-PATENT-CLASS-239-416			US-PATENT-CLASS-73-295
N71-17579*	c 12	NASA-CASE-XLA-07391			US-PATENT-CLASS-3,534,909			US-PATENT-CLASS-3,273,392
		US-PATENT-APPL-SN-726898	N71-17655*	c 14	NASA-CASE-NPO-10320	N71-17803*	c 15	NASA-CASE-XMS-05516
		US-PATENT-CLASS-137-81.5			US-PATENT-APPL-SN-718689			US-PATENT-APPL-SN-563648
		US-PATENT-CLASS-3,493,004			US-PATENT-CLASS-356-106			US-PATENT-CLASS-264-92
N71-17584*	c 14	NASA-CASE-XNP-09462			US-PATENT-CLASS-3,535,041			US-PATENT-CLASS-3,488,414
		US-PATENT-APPL-SN-658957	N71-17656*	c 14	NASA-CASE-MFS-12827	N71-17805*	c 15	NASA-CASE-MFS-12805
		US-PATENT-CLASS-73-57			US-PATENT-APPL-SN-742816			US-PATENT-APPL-SN-758082
		US-PATENT-CLASS-3,500,677			US-PATENT-CLASS-73-88.5			US-PATENT-CLASS-192-43.1
N71-17585*	c 14	NASA-CASE-XGS-05680			US-PATENT-CLASS-3,534,592			US-PATENT-CLASS-81-63.1
		US-PATENT-APPL-SN-656953	N71-17657*	c 14	NASA-CASE-XNP-09205			US-PATENT-CLASS-3,534,836
		US-PATENT-CLASS-318-138			US-PATENT-APPL-SN-768473	N71-17818*	c 26	NASA-CASE-XMF-01016
		US-PATENT-CLASS-3,501,664			US-PATENT-CLASS-33-149			US-PATENT-APPL-SN-326299
N71-17586*	c 14	NASA-CASE-XLA-08646			US-PATENT-CLASS-3,534,479			US-PATENT-CLASS-264-27
		US-PATENT-APPL-SN-677476	N71-17658*	c 14	NASA-CASE-XMF-04966			US-PATENT-CLASS-3,274,304
		US-PATENT-CLASS-73-105			US-PATENT-APPL-SN-727480	N71-17822*	c 15	NASA-CASE-ARC-10009-1
		US-PATENT-CLASS-3,534,596			US-PATENT-CLASS-33-174			US-PATENT-APPL-SN-714595
N71-17587*	c 14	NASA-CASE-XMF-05844			US-PATENT-CLASS-3,534,480			US-PATENT-CLASS-324-58.5
		US-PATENT-APPL-SN-706564	N71-17659*	c 14	NASA-CASE-XMF-02964			US-PATENT-CLASS-3,532,973
		US-PATENT-CLASS-73-382			US-PATENT-APPL-SN-493942	N71-17897*	c 33	NASA-CASE-XLA-00892
		US-PATENT-CLASS-3,500,688			US-PATENT-CLASS-73-15.4			US-PATENT-APPL-SN-245941
N71-17588*	c 14	NASA-CASE-MFS-12806			US-PATENT-CLASS-3,465,569			US-PATENT-CLASS-62-467
		US-PATENT-APPL-SN-686933	N71-17661*	c 12	NASA-CASE-NPO-10298			US-PATENT-CLASS-3,273,355
		US-PATENT-CLASS-55-179			US-PATENT-APPL-SN-745852	N71-18064*	c 26	NASA-CASE-XNP-01328
		US-PATENT-CLASS-3,490,205			US-PATENT-CLASS-137-341			US-PATENT-APPL-SN-296879
N71-17599*	c 05	NASA-CASE-MSC-12206-1			US-PATENT-CLASS-3,534,765			US-PATENT-CLASS-317-234
		US-PATENT-APPL-SN-856258	N71-17662*	c 14	NASA-CASE-NPO-10300			US-PATENT-CLASS-3,271,637
		US-PATENT-CLASS-128-142.5			US-PATENT-APPL-SN-718769	N71-18132*	c 15	NASA-CASE-MFS-13686
		US-PATENT-CLASS-3,516,404			US-PATENT-CLASS-350-285			US-PATENT-APPL-SN-716183
N71-17600*	c 11	NASA-CASE-MFS-12915			US-PATENT-CLASS-3,535,024			US-PATENT-CLASS-73-67.2
		US-PATENT-APPL-SN-694340	N71-17679*	c 31	NASA-CASE-XNP-02507			US-PATENT-CLASS-3,531,982
		US-PATENT-CLASS-220-89			US-PATENT-APPL-SN-475299	N71-18465*	c 14	NASA-CASE-NPO-10174
		US-PATENT-CLASS-3,469,734			US-PATENT-CLASS-244-1			US-PATENT-APPL-SN-690163
N71-17609*	c 32	NASA-CASE-XLA-02332			US-PATENT-CLASS-3,310,256			US-PATENT-CLASS-95-11
		US-PATENT-APPL-SN-388024	N71-17680*	c 31	NASA-CASE-XLA-00117			US-PATENT-CLASS-3,520,238
		US-PATENT-CLASS-212-11			US-PATENT-APPL-SN-835153	N71-18481*	c 14	NASA-CASE-XLA-02758
		US-PATENT-CLASS-3,276,602			US-PATENT-CLASS-220-1			US-PATENT-APPL-SN-759665
N71-17610*	c 33	NASA-CASE-XLA-00377			US-PATENT-CLASS-2,996,212			US-PATENT-CLASS-73-4

N71-18482*	c 14	US-PATENT-3,531,978 NASA-CASE-XLA-07424 US-PATENT-APPL-SN-635326 US-PATENT-CLASS-313-7 US-PATENT-3,466,484	N71-18699*	c 14	US-PATENT-3,507,706 NASA-CASE-XLA-03273 US-PATENT-APPL-SN-487352 US-PATENT-CLASS-250-83.3 US-PATENT-3,458,702	N71-19433*	c 07	US-PATENT-3,517,318 NASA-CASE-MFS-13046 US-PATENT-APPL-SN-673228 US-PATENT-CLASS-178-6 US-PATENT-3,532,807
N71-18483*	c 14	NASA-CASE-XER-09519 US-PATENT-APPL-SN-676375 US-PATENT-CLASS-55-208 US-PATENT-3,469,375	N71-18701*	c 15	NASA-CASE-XMF-07587 US-PATENT-APPL-SN-649359 US-PATENT-CLASS-317-122 US-PATENT-3,448,346	N71-19435*	c 08	NASA-CASE-XGS-02612 US-PATENT-APPL-SN-502743 US-PATENT-CLASS-340-347 US-PATENT-3,509,558
N71-18578*	c 11	NASA-CASE-XAC-05902 US-PATENT-APPL-SN-662828 US-PATENT-CLASS-89-8 US-PATENT-3,465,638	N71-18720*	c 09	NASA-CASE-MSC-12101 US-PATENT-APPL-SN-763705 US-PATENT-CLASS-343-718 US-PATENT-3,509,570	N71-19436*	c 07	NASA-CASE-XMF-09422 US-PATENT-APPL-SN-783378 US-PATENT-CLASS-174-35 US-PATENT-3,517,109
N71-18579*	c 15	NASA-CASE-XGS-04175 US-PATENT-APPL-SN-606464 US-PATENT-CLASS-72-364 US-PATENT-3,465,567	N71-18721*	c 09	NASA-CASE-XER-07894 US-PATENT-APPL-SN-644444 US-PATENT-CLASS-331-107 US-PATENT-3,501,764	N71-19437*	c 08	NASA-CASE-XGS-04768 US-PATENT-APPL-SN-598119 US-PATENT-CLASS-235-158 US-PATENT-3,508,039
N71-18580*	c 15	NASA-CASE-XNP-09698 US-PATENT-APPL-SN-698592 US-PATENT-CLASS-138-4 US-PATENT-CLASS-251-118 US-PATENT-CLASS-251-121 US-PATENT-3,532,128	N71-18722*	c 10	NASA-CASE-ERC-10046 US-PATENT-APPL-SN-793772 US-PATENT-CLASS-343-100 US-PATENT-3,501,764	N71-19438*	c 03	NASA-CASE-XGS-05432 US-PATENT-APPL-SN-549860 US-PATENT-CLASS-320-23 US-PATENT-3,426,263
N71-18594*	c 08	NASA-CASE-XAC-04031 US-PATENT-APPL-SN-538905 US-PATENT-CLASS-340-347 US-PATENT-3,533,098	N71-18723*	c 10	NASA-CASE-XNP-09450 US-PATENT-APPL-SN-640459 US-PATENT-CLASS-307-273 US-PATENT-3,501,649	N71-19439*	c 05	NASA-CASE-XMS-09571 US-PATENT-APPL-SN-678700 US-PATENT-CLASS-165-46 US-PATENT-3,425,487
N71-18595*	c 08	NASA-CASE-XGS-03303 US-PATENT-APPL-SN-520838 US-PATENT-CLASS-340-174 US-PATENT-3,501,752	N71-18724*	c 10	NASA-CASE-XLA-09371 US-PATENT-APPL-SN-568160 US-PATENT-CLASS-318-257 US-PATENT-3,504,258	N71-19440*	c 05	NASA-CASE-XMS-01177 US-PATENT-APPL-SN-516150 US-PATENT-CLASS-250-83 US-PATENT-3,427,454
N71-18598*	c 09	NASA-CASE-NPO-10066 US-PATENT-APPL-SN-681693 US-PATENT-CLASS-343-13 US-PATENT-3,447,155	N71-18751*	c 08	NASA-CASE-XLA-07732 US-PATENT-APPL-SN-641441 US-PATENT-CLASS-307-216 US-PATENT-3,512,009	N71-19449*	c 09	NASA-CASE-XFR-03107 US-PATENT-APPL-SN-507257 US-PATENT-CLASS-178-6 US-PATENT-3,458,651
N71-18599*	c 09	NASA-CASE-LAR-10372 US-PATENT-APPL-SN-730162 US-PATENT-CLASS-102-70.2 US-PATENT-3,500,747	N71-18752*	c 08	NASA-CASE-XMF-00663 US-PATENT-APPL-SN-205470 US-PATENT-CLASS-321-5 US-PATENT-3,521,143	N71-19466*	c 09	NASA-CASE-XGS-02812 US-PATENT-APPL-SN-502750 US-PATENT-CLASS-330-30 US-PATENT-3,466,560
N71-18600*	c 09	NASA-CASE-MSC-12168-1 US-PATENT-APPL-SN-640154 US-PATENT-CLASS-312-296 US-PATENT-3,447,850	N71-18772*	c 10	NASA-CASE-GSC-10366-1 US-PATENT-APPL-SN-771523 US-PATENT-CLASS-318-138 US-PATENT-3,532,948	N71-19467*	c 10	NASA-CASE-XMF-08665 US-PATENT-APPL-SN-582609 US-PATENT-CLASS-325-63 US-PATENT-3,470,475
N71-18602*	c 08	NASA-CASE-XGS-04766 US-PATENT-APPL-SN-598120 US-PATENT-CLASS-235-175 US-PATENT-3,532,866	N71-18773*	c 11	NASA-CASE-XMF-07488 US-PATENT-APPL-SN-707495 US-PATENT-CLASS-35-12 US-PATENT-3,534,485	N71-19468*	c 10	NASA-CASE-XMS-05605-1 US-PATENT-APPL-SN-764812 US-PATENT-CLASS-178-69.5 US-PATENT-3,532,819
N71-18603*	c 12	NASA-CASE-ERC-10031 US-PATENT-APPL-SN-741461 US-PATENT-CLASS-40-28 US-PATENT-3,516,185	N71-18830*	c 09	NASA-CASE-XAC-10768 US-PATENT-APPL-SN-711970 US-PATENT-CLASS-250-83 US-PATENT-3,508,053	N71-19469*	c 10	NASA-CASE-XNP-00777 US-PATENT-APPL-SN-486573 US-PATENT-CLASS-329-122 US-PATENT-3,517,268
N71-18611*	c 31	NASA-CASE-MFS-20400 US-PATENT-APPL-SN-551694 US-PATENT-CLASS-152-11 US-PATENT-3,493,027	N71-18843*	c 09	NASA-CASE-XNP-03263 US-PATENT-APPL-SN-506908 US-PATENT-CLASS-340-146.1 US-PATENT-3,501,743	N71-19470*	c 09	NASA-CASE-XGS-05289 US-PATENT-APPL-SN-632104 US-PATENT-CLASS-331-113 US-PATENT-3,470,496
N71-18613*	c 15	NASA-CASE-XNP-02588 US-PATENT-APPL-SN-563644 US-PATENT-CLASS-219-91 US-PATENT-3,466,418	N71-19212*	c 21	NASA-CASE-MFS-20386 US-PATENT-APPL-SN-818349 US-PATENT-CLASS-356-28 US-PATENT-3,532,427	N71-19471*	c 10	NASA-CASE-XLE-03804 US-PATENT-APPL-SN-526631 US-PATENT-CLASS-307-235 US-PATENT-3,463,939
N71-18614*	c 16	NASA-CASE-XGS-03644 US-PATENT-APPL-SN-505320 US-PATENT-CLASS-331-94.5 US-PATENT-3,517,328	N71-19213*	c 15	NASA-CASE-MFS-14259 US-PATENT-APPL-SN-787410 US-PATENT-CLASS-138-43 US-PATENT-3,536,103	N71-19472*	c 10	NASA-CASE-XAC-04030 US-PATENT-APPL-SN-520839 US-PATENT-CLASS-328-1 US-PATENT-3,464,016
N71-18615*	c 12	NASA-CASE-XNP-09704 US-PATENT-APPL-SN-730701 US-PATENT-CLASS-137-594 US-PATENT-CLASS-138-46 US-PATENT-CLASS-251-127 US-PATENT-CLASS-251-333 US-PATENT-CLASS-251-342 US-PATENT-CLASS-251-61.1 US-PATENT-3,532,118	N71-19214*	c 15	NASA-CASE-MFS-20410 US-PATENT-APPL-SN-819589 US-PATENT-CLASS-244-1 US-PATENT-3,534,926	N71-19479*	c 09	NASA-CASE-XMS-04300 US-PATENT-APPL-SN-516158 US-PATENT-CLASS-350-275 US-PATENT-3,427,093
N71-18616*	c 15	NASA-CASE-XLA-07390 US-PATENT-APPL-SN-665681 US-PATENT-CLASS-72-53 US-PATENT-3,531,964	N71-19287*	c 02	NASA-CASE-GSC-10087-1 US-PATENT-APPL-SN-701679 US-PATENT-CLASS-343-112 US-PATENT-3,534,367	N71-19480*	c 09	NASA-CASE-XFR-05637 US-PATENT-APPL-SN-484855 US-PATENT-CLASS-235-194 US-PATENT-3,423,579
N71-18625*	c 14	NASA-CASE-NPO-10175 US-PATENT-APPL-SN-685787 US-PATENT-CLASS-137-505.12 US-PATENT-3,443,583	N71-19288*	c 08	NASA-CASE-NPO-10068 US-PATENT-APPL-SN-668969 US-PATENT-CLASS-340-172.5 US-PATENT-3,501,750	N71-19485*	c 15	NASA-CASE-MSC-11010 US-PATENT-APPL-SN-605090 US-PATENT-CLASS-251-31 US-PATENT-3,447,774
N71-18692*	c 08	NASA-CASE-MFS-14322 US-PATENT-APPL-SN-646934 US-PATENT-CLASS-328-134 US-PATENT-3,501,701	N71-19417*	c 10	NASA-CASE-XMS-10984-1 US-PATENT-APPL-SN-605095 US-PATENT-CLASS-340-213.1 US-PATENT-3,533,093	N71-19486*	c 15	NASA-CASE-XMF-08522 US-PATENT-APPL-SN-640447 US-PATENT-CLASS-219-121 US-PATENT-3,474,220
N71-18693*	c 08	NASA-CASE-XGS-04765 US-PATENT-APPL-SN-577545 US-PATENT-CLASS-235-156 US-PATENT-3,508,036	N71-19418*	c 10	NASA-CASE-GSC-10041-1 US-PATENT-APPL-SN-684209 US-PATENT-CLASS-331-113 US-PATENT-3,458,833	N71-19489*	c 15	NASA-CASE-XMF-04680 US-PATENT-APPL-SN-634040 US-PATENT-CLASS-33-147 US-PATENT-3,425,131
N71-18694*	c 08	NASA-CASE-NPO-10201 US-PATENT-APPL-SN-691738 US-PATENT-CLASS-340-174 US-PATENT-3,509,551	N71-19420*	c 08	NASA-CASE-XNP-09453 US-PATENT-APPL-SN-640448 US-PATENT-CLASS-226-190 US-PATENT-3,507,436	N71-19493*	c 07	NASA-CASE-XKS-08485 US-PATENT-APPL-SN-649078 US-PATENT-CLASS-343-873 US-PATENT-3,509,578
N71-18698*	c 03	NASA-CASE-NPO-10373 US-PATENT-APPL-SN-718752 US-PATENT-CLASS-136-89	N71-19421*	c 10	NASA-CASE-XLA-08493 US-PATENT-APPL-SN-749148 US-PATENT-CLASS-324-72 US-PATENT-3,532,975	N71-19494*	c 11	NASA-CASE-MFS-10555 US-PATENT-APPL-SN-700984 US-PATENT-CLASS-35-12 US-PATENT-3,516,179
			N71-19431*	c 14	NASA-CASE-XGS-02439 US-PATENT-APPL-SN-487341 US-PATENT-CLASS-324-120 US-PATENT-3,422,352	N71-19516*	c 09	NASA-CASE-XNP-06937 US-PATENT-APPL-SN-640449 US-PATENT-CLASS-330-30 US-PATENT-3,501,712
			N71-19432*	c 08	NASA-CASE-XGS-02440 US-PATENT-APPL-SN-655677 US-PATENT-CLASS-328-42	N71-19544*	c 08	NASA-CASE-XGS-01230 US-PATENT-APPL-SN-356488 US-PATENT-CLASS-340-347

N71-19545*	c 03	US-PATENT-3,474,441 NASA-CASE-NPO-10821 US-PATENT-APPL-SN-670814 US-PATENT-CLASS-136-89 US-PATENT-3,466,198	N71-20439*	c 14	US-PATENT-3,461,721 NASA-CASE-XAC-04886-1 US-PATENT-APPL-SN-574290 US-PATENT-CLASS-73-142 US-PATENT-3,425,272	N71-20742*	c 18	US-PATENT-3,360,980 NASA-CASE-XMS-02952 US-PATENT-APPL-SN-519160 US-PATENT-CLASS-55-158 US-PATENT-3,355,861
N71-19547*	c 10	NASA-CASE-XGS-03058 US-PATENT-APPL-SN-568987 US-PATENT-CLASS-307-289 US-PATENT-3,517,221	N71-20440*	c 15	NASA-CASE-XNP-09770 US-PATENT-APPL-SN-700120 US-PATENT-CLASS-209-10 US-PATENT-3,472,372	N71-20743*	c 17	NASA-CASE-XMF-02786 US-PATENT-APPL-SN-466873 US-PATENT-CLASS-75-142 US-PATENT-3,347,665
N71-19568*	c 14	NASA-CASE-MSC-10966 US-PATENT-APPL-SN-665676 US-PATENT-CLASS-250-203 US-PATENT-3,421,004	N71-20441*	c 15	NASA-CASE-XMS-06329-1 US-PATENT-APPL-SN-688742 US-PATENT-CLASS-73-141 US-PATENT-3,472,069	N71-20747*	c 25	NASA-CASE-XLE-02578 US-PATENT-APPL-SN-469012 US-PATENT-CLASS-313-271 US-PATENT-3,356,885
N71-19569*	c 15	NASA-CASE-XLA-05749 US-PATENT-APPL-SN-621714 US-PATENT-CLASS-137-582 US-PATENT-3,426,791	N71-20442*	c 14	NASA-CASE-MFS-11537 US-PATENT-APPL-SN-636878 US-PATENT-CLASS-23-254 US-PATENT-3,472,629	N71-20782*	c 10	NASA-CASE-XGS-01784 US-PATENT-APPL-SN-396444 US-PATENT-CLASS-250-206 US-PATENT-3,348,053
N71-19570*	c 15	NASA-CASE-XLE-05130-2 US-PATENT-APPL-SN-700586 US-PATENT-CLASS-277-25 US-PATENT-3,466,052	N71-20443*	c 15	NASA-CASE-MFS-07369 US-PATENT-APPL-SN-640462 US-PATENT-CLASS-29-492 US-PATENT-3,473,216	N71-20791*	c 07	NASA-CASE-XNP-05254 US-PATENT-APPL-SN-472372 US-PATENT-CLASS-325-31 US-PATENT-3,350,643
N71-19610*	c 09	NASA-CASE-NPO-10037 US-PATENT-APPL-SN-700987 US-PATENT-CLASS-200-152 US-PATENT-3,470,342	N71-20445*	c 09	NASA-CASE-XNP-09775 US-PATENT-APPL-SN-668247 US-PATENT-CLASS-333-96 US-PATENT-3,474,357	N71-20813*	c 15	NASA-CASE-XMS-02184 US-PATENT-APPL-SN-608247 US-PATENT-CLASS-248-27 US-PATENT-3,361,400
N71-19687*	c 08	NASA-CASE-XNP-04780 US-PATENT-APPL-SN-455477 US-PATENT-CLASS-340-347 US-PATENT-3,430,227	N71-20446*	c 09	NASA-CASE-XLE-04250 US-PATENT-APPL-SN-621098 US-PATENT-CLASS-310-54 US-PATENT-3,447,003	N71-20814*	c 07	NASA-CASE-XNP-01306 US-PATENT-APPL-SN-343426 US-PATENT-CLASS-179-15 US-PATENT-3,364,311
N71-19763*	c 08	NASA-CASE-XAC-06302 US-PATENT-APPL-SN-574284 US-PATENT-CLASS-325-60 US-PATENT-3,456,193	N71-20447*	c 09	NASA-CASE-XLA-02850 US-PATENT-APPL-SN-556784 US-PATENT-CLASS-307-267 US-PATENT-3,473,050	N71-20815*	c 12	NASA-CASE-XMF-01779 US-PATENT-APPL-SN-521999 US-PATENT-CLASS-346-1 US-PATENT-3,357,024
N71-19773*	c 07	NASA-CASE-GSC-10373-1 US-PATENT-APPL-SN-712658 US-PATENT-CLASS-325-4 US-PATENT-3,532,985	N71-20448*	c 10	NASA-CASE-XNP-03744 US-PATENT-APPL-SN-547677 US-PATENT-CLASS-318-314 US-PATENT-3,424,966	N71-20816*	c 09	NASA-CASE-XAC-01677 US-PATENT-APPL-SN-596338 US-PATENT-CLASS-73-147 US-PATENT-3,360,988
N71-19854*	c 07	NASA-CASE-GSC-10553-1 US-PATENT-APPL-SN-820963 US-PATENT-CLASS-343-100 US-PATENT-3,534,365	N71-20461*	c 14	NASA-CASE-XNP-09763 US-PATENT-APPL-SN-600682 US-PATENT-CLASS-117-6 US-PATENT-3,433,662	N71-20834*	c 33	NASA-CASE-XMS-02009 US-PATENT-APPL-SN-455352 US-PATENT-CLASS-141-5 US-PATENT-3,349,814
N71-20268*	c 05	NASA-CASE-XLA-02898 US-PATENT-APPL-SN-429932 US-PATENT-CLASS-128-1 US-PATENT-3,461,855	N71-20491*	c 03	NASA-CASE-XGS-05434 US-PATENT-APPL-SN-667636 US-PATENT-CLASS-136-182 US-PATENT-3,463,673	N71-20841*	c 10	NASA-CASE-XGS-01222 US-PATENT-APPL-SN-354182 US-PATENT-CLASS-325-305 US-PATENT-3,348,152
N71-20273*	c 03	NASA-CASE-NPO-10188 US-PATENT-APPL-SN-681687 US-PATENT-CLASS-244-1 US-PATENT-3,473,758	N71-20492*	c 03	NASA-CASE-XLE-04787 US-PATENT-APPL-SN-551846 US-PATENT-CLASS-136-89 US-PATENT-3,434,885	N71-20842*	c 09	NASA-CASE-XNP-05381 US-PATENT-APPL-SN-568352 US-PATENT-CLASS-338-82 US-PATENT-3,350,671
N71-20330*	c 28	NASA-CASE-XLE-103477-1 US-PATENT-APPL-SN-466390 US-PATENT-CLASS-60-39.36 US-PATENT-3,433,015	N71-20518*	c 24	NASA-CASE-XNP-02592 US-PATENT-APPL-SN-484490 US-PATENT-CLASS-324-33 US-PATENT-3,430,131	N71-20851*	c 09	NASA-CASE-XNP-04732 US-PATENT-APPL-SN-557584 US-PATENT-CLASS-339-177 US-PATENT-3,358,264
N71-20393*	c 15	NASA-CASE-MFS-06074 US-PATENT-APPL-SN-688743 US-PATENT-CLASS-228-9 US-PATENT-3,458,104	N71-20563*	c 25	NASA-CASE-XLA-06232 US-PATENT-APPL-SN-612740 US-PATENT-CLASS-324-58.5 US-PATENT-3,473,116	N71-20852*	c 10	NASA-CASE-XGS-03502 US-PATENT-APPL-SN-584066 US-PATENT-CLASS-331-17 US-PATENT-3,361,985
N71-20395*	c 15	NASA-CASE-XMF-06065 US-PATENT-APPL-SN-665679 US-PATENT-CLASS-219-275 US-PATENT-3,466,424	N71-20569*	c 09	NASA-CASE-XMS-08589-1 US-PATENT-APPL-SN-544899 US-PATENT-CLASS-324-57 US-PATENT-3,434,050	N71-20864*	c 09	NASA-CASE-XGS-03501 US-PATENT-APPL-SN-576521 US-PATENT-CLASS-343-16 US-PATENT-3,359,555
N71-20396*	c 31	NASA-CASE-XMF-08523 US-PATENT-APPL-SN-645563 US-PATENT-CLASS-244-1 US-PATENT-3,465,986	N71-20570*	c 02	NASA-CASE-XAC-08972 US-PATENT-APPL-SN-700174 US-PATENT-CLASS-244-76 US-PATENT-3,472,470	N71-20895*	c 03	NASA-CASE-XNP-00826 US-PATENT-APPL-SN-327163 US-PATENT-CLASS-136-89 US-PATENT-3,346,419
N71-20400*	c 16	NASA-CASE-MFS-11279 US-PATENT-APPL-SN-628094 US-PATENT-CLASS-219-121 US-PATENT-3,472,998	N71-20571*	c 08	NASA-CASE-XGS-04987 US-PATENT-APPL-SN-619908 US-PATENT-CLASS-315-24 US-PATENT-3,437,874	N71-20896*	c 12	NASA-CASE-XNP-02251 US-PATENT-APPL-SN-432030 US-PATENT-CLASS-321-48 US-PATENT-3,337,790
N71-20407*	c 03	NASA-CASE-NPO-10194 US-PATENT-APPL-SN-668249 US-PATENT-CLASS-136-182 US-PATENT-3,460,995	N71-20658*	c 09	NASA-CASE-XMS-03454 US-PATENT-APPL-SN-425363 US-PATENT-CLASS-343-915 US-PATENT-3,360,798	N71-20904*	c 03	NASA-CASE-XLE-01645 US-PATENT-APPL-SN-342574 US-PATENT-CLASS-136-86 US-PATENT-3,357,862
N71-20427*	c 14	NASA-CASE-XMS-13052 US-PATENT-APPL-SN-561223 US-PATENT-CLASS-62-268 US-PATENT-3,455,121	N71-20705*	c 09	NASA-CASE-XMF-01599 US-PATENT-APPL-SN-381940 US-PATENT-CLASS-117-212 US-PATENT-3,359,132	N71-20905*	c 06	NASA-CASE-XMF-02584 US-PATENT-APPL-SN-506135 US-PATENT-CLASS-260-2 US-PATENT-3,346,515
N71-20428*	c 14	NASA-CASE-XGS-04879 US-PATENT-APPL-SN-541399 US-PATENT-CLASS-324-5 US-PATENT-3,443,208	N71-20717*	c 06	NASA-CASE-XMF-04133 US-PATENT-APPL-SN-554949 US-PATENT-CLASS-260-2 US-PATENT-3,354,098	N71-20942*	c 28	NASA-CASE-XNP-04389 US-PATENT-APPL-SN-523511 US-PATENT-CLASS-60-265 US-PATENT-3,353,359
N71-20429*	c 14	NASA-CASE-XLE-05260 US-PATENT-APPL-SN-674355 US-PATENT-CLASS-73-117.4 US-PATENT-3,463,001	N71-20718*	c 05	NASA-CASE-XMS-04625 US-PATENT-APPL-SN-519161 US-PATENT-CLASS-244-122 US-PATENT-3,356,320	N71-21006*	c 14	NASA-CASE-XLA-01832 US-PATENT-APPL-SN-517858 US-PATENT-CLASS-346-50 US-PATENT-3,354,462
N71-20430*	c 14	NASA-CASE-XLA-03645 US-PATENT-APPL-SN-600266 US-PATENT-CLASS-250-83 US-PATENT-3,450,878	N71-20739*	c 15	NASA-CASE-XGS-02011 US-PATENT-APPL-SN-502693 US-PATENT-CLASS-308-9 US-PATENT-3,359,046	N71-21007*	c 14	NASA-CASE-XMS-06236 US-PATENT-APPL-SN-482670 US-PATENT-CLASS-73-290 US-PATENT-3,355,948
N71-20435*	c 14	NASA-CASE-XMS-06767-1 US-PATENT-APPL-SN-716795 US-PATENT-CLASS-73-422 US-PATENT-3,438,263	N71-20740*	c 15	NASA-CASE-XLA-01808 US-PATENT-APPL-SN-517159 US-PATENT-CLASS-74-471 US-PATENT-3,364,777	N71-21042*	c 08	NASA-CASE-XGS-01021 US-PATENT-APPL-SN-279646 US-PATENT-CLASS-340-174.1 US-PATENT-3,327,298
N71-20436*	c 12	NASA-CASE-LAR-11138 US-PATENT-APPL-SN-694317 US-PATENT-CLASS-73-147	N71-20741*	c 14	NASA-CASE-XMS-01618 US-PATENT-APPL-SN-418362 US-PATENT-CLASS-73-29	N71-21045*	c 32	NASA-CASE-XLA-01731 US-PATENT-APPL-SN-425365 US-PATENT-CLASS-52-2

N71-21060*	c 15	US-PATENT-3,364,631 NASA-CASE-XLA-03660 US-PATENT-APPL-SN-482307 US-PATENT-CLASS-95-53 US-PATENT-3,361,045	N71-21483*	c 10	US-PATENT-3,345,866 NASA-CASE-XGS-01155 US-PATENT-APPL-SN-557871 US-PATENT-CLASS-343-16 US-PATENT-3,344,425	N71-22706*	c 15	US-PATENT-3,341,977 NASA-CASE-XMS-09310 US-PATENT-APPL-SN-655724 US-PATENT-CLASS-137-496 US-PATENT-3,384,111
N71-21064*	c 31	NASA-CASE-XGS-02554 US-PATENT-APPL-SN-504266 US-PATENT-CLASS-244-1 US-PATENT-3,350,034	N71-21489*	c 15	NASA-CASE-XNP-06914 US-PATENT-APPL-SN-590147 US-PATENT-CLASS-85-33 US-PATENT-3,352,192	N71-22707*	c 08	NASA-CASE-XNP-04067 US-PATENT-APPL-SN-466875 US-PATENT-CLASS-340-172.5 US-PATENT-3,369,222
N71-21068*	c 18	US-PATENT-APPL-SN-02888 US-PATENT-APPL-SN-409126 US-PATENT-CLASS-239-265.11 US-PATENT-3,347,465	N71-21493*	c 28	NASA-CASE-XLA-10450 US-PATENT-APPL-SN-594587 US-PATENT-CLASS-239-265.19 US-PATENT-3,347,466	N71-22710*	c 08	NASA-CASE-XNP-02778 US-PATENT-APPL-SN-508170 US-PATENT-CLASS-340-172.5 US-PATENT-3,369,223
N71-21072*	c 14	NASA-CASE-XAC-02981 US-PATENT-APPL-SN-464879 US-PATENT-CLASS-73-398 US-PATENT-3,352,157	N71-21507*	c 33	NASA-CASE-XLE-04603 US-PATENT-APPL-SN-638194 US-PATENT-CLASS-60-243 US-PATENT-3,347,046	N71-22713*	c 15	NASA-CASE-XLA-03492 US-PATENT-APPL-SN-395348 US-PATENT-CLASS-156-60 US-PATENT-3,342,653
N71-21076*	c 15	NASA-CASE-XMS-03745 US-PATENT-APPL-SN-534295 US-PATENT-CLASS-24-263 US-PATENT-3,346,929	N71-21528*	c 15	NASA-CASE-XLA-01446 US-PATENT-APPL-SN-400613 US-PATENT-CLASS-53-102 US-PATENT-3,336,725	N71-22721*	c 15	NASA-CASE-XMF-03212 US-PATENT-APPL-SN-577549 US-PATENT-CLASS-55-418 US-PATENT-3,385,036
N71-21078*	c 15	NASA-CASE-XNP-03459 US-PATENT-APPL-SN-457879 US-PATENT-CLASS-29-495 US-PATENT-3,357,093	N71-21529*	c 15	NASA-CASE-XGS-02422 US-PATENT-APPL-SN-493943 US-PATENT-CLASS-74-126 US-PATENT-3,331,255	N71-22722*	c 15	NASA-CASE-XMS-04292 US-PATENT-APPL-SN-517157 US-PATENT-CLASS-82-14 US-PATENT-3,373,640
N71-21079*	c 14	NASA-CASE-XLA-03102 US-PATENT-APPL-SN-576195 US-PATENT-CLASS-33-31 US-PATENT-3,364,578	N71-21530*	c 15	NASA-CASE-XMS-03722 US-PATENT-APPL-SN-487934 US-PATENT-CLASS-267-64 US-PATENT-3,330,549	N71-22723*	c 15	NASA-CASE-XMF-01083 US-PATENT-APPL-SN-432028 US-PATENT-CLASS-72-83 US-PATENT-3,340,713
N71-21082*	c 14	NASA-CASE-XGS-02629 US-PATENT-APPL-SN-500435 US-PATENT-CLASS-244-1 US-PATENT-3,350,033	N71-21531*	c 15	NASA-CASE-XNP-02341 US-PATENT-APPL-SN-432025 US-PATENT-CLASS-52-127 US-PATENT-3,330,082	N71-22748*	c 05	NASA-CASE-XMS-04170 US-PATENT-APPL-SN-482311 US-PATENT-CLASS-9-312 US-PATENT-3,343,189
N71-21088*	c 14	NASA-CASE-XNP-06957 US-PATENT-APPL-SN-406097 US-PATENT-CLASS-250-83.3 US-PATENT-3,348,048	N71-21536*	c 15	NASA-CASE-XMS-06876 US-PATENT-APPL-SN-605100 US-PATENT-CLASS-72-34 US-PATENT-3,345,840	N71-22749*	c 08	NASA-CASE-XNP-02748 US-PATENT-APPL-SN-420245 US-PATENT-CLASS-340-146.1 US-PATENT-3,373,404
N71-21089*	c 12	NASA-CASE-XMS-01905 US-PATENT-APPL-SN-280580 US-PATENT-CLASS-141-91 US-PATENT-3,331,404	N71-21583*	c 09	NASA-CASE-XLE-02008 US-PATENT-APPL-SN-487342 US-PATENT-CLASS-338-64 US-PATENT-3,329,918	N71-22750*	c 07	NASA-CASE-XNP-01735 US-PATENT-APPL-SN-408438 US-PATENT-CLASS-343-786 US-PATENT-3,373,431
N71-21090*	c 14	NASA-CASE-XLE-00787 US-PATENT-APPL-SN-330210 US-PATENT-CLASS-324-33 US-PATENT-3,346,806	N71-21586*	c 33	NASA-CASE-XLA-01794 US-PATENT-APPL-SN-464880 US-PATENT-CLASS-73-86 US-PATENT-3,357,237	N71-22752*	c 14	NASA-CASE-XMF-01974 US-PATENT-APPL-SN-568354 US-PATENT-CLASS-73-419 US-PATENT-3,383,922
N71-21091*	c 14	NASA-CASE-XNP-02983 US-PATENT-APPL-SN-407599 US-PATENT-CLASS-73-88.5 US-PATENT-3,350,926	N71-21651*	c 18	NASA-CASE-XMF-01402 US-PATENT-APPL-SN-328140 US-PATENT-CLASS-161-68 US-PATENT-3,346,442	N71-22765*	c 14	NASA-CASE-XLA-00934 US-PATENT-APPL-SN-326298 US-PATENT-CLASS-73-84 US-PATENT-3,339,404
N71-21177*	c 15	NASA-CASE-XAC-06956 US-PATENT-APPL-SN-538166 US-PATENT-CLASS-259-71 US-PATENT-3,347,531	N71-21688*	c 21	NASA-CASE-XMF-00684 US-PATENT-APPL-SN-260087 US-PATENT-CLASS-235-150.25 US-PATENT-3,331,951	N71-22792*	c 33	NASA-CASE-XLA-01243 US-PATENT-APPL-SN-538911 US-PATENT-CLASS-244-1 US-PATENT-3,384,324
N71-21179*	c 15	NASA-CASE-XLA-01401 US-PATENT-APPL-SN-382976 US-PATENT-CLASS-235-61.6 US-PATENT-3,346,724	N71-21693*	c 25	NASA-CASE-XLA-03103 US-PATENT-APPL-SN-531642 US-PATENT-CLASS-315-111 US-PATENT-3,333,152	N71-22796*	c 09	NASA-CASE-XKS-03381 US-PATENT-APPL-SN-437611 US-PATENT-CLASS-317-9 US-PATENT-3,340,430
N71-21234*	c 15	NASA-CASE-XKS-02582 US-PATENT-APPL-SN-424153 US-PATENT-CLASS-251-172 US-PATENT-3,327,991	N71-21694*	c 25	NASA-CASE-XLE-02902 US-PATENT-APPL-SN-485957 US-PATENT-CLASS-60-202 US-PATENT-3,336,748	N71-22797*	c 15	NASA-CASE-XLE-01092 US-PATENT-APPL-SN-422098 US-PATENT-CLASS-72-253 US-PATENT-3,342,055
N71-21311*	c 15	NASA-CASE-XNP-03637 US-PATENT-APPL-SN-453232 US-PATENT-CLASS-310-9.1 US-PATENT-3,359,435	N71-21708*	c 21	NASA-CASE-XLA-02551 US-PATENT-APPL-SN-416940 US-PATENT-CLASS-244-1 US-PATENT-3,329,375	N71-22798*	c 15	NASA-CASE-XMS-04178 US-PATENT-APPL-SN-511299 US-PATENT-CLASS-83-467 US-PATENT-3,367,224
N71-21403*	c 15	NASA-CASE-XMF-03988 US-PATENT-APPL-SN-578923 US-PATENT-CLASS-252-26 US-PATENT-3,361,666	N71-21744*	c 15	NASA-CASE-XGS-04227 US-PATENT-APPL-SN-545805 US-PATENT-CLASS-74-409 US-PATENT-3,359,819	N71-22799*	c 15	NASA-CASE-XMF-03511 US-PATENT-APPL-SN-540414 US-PATENT-CLASS-90-12 US-PATENT-3,386,337
N71-21404*	c 15	NASA-CASE-XLA-01262 US-PATENT-APPL-SN-386800 US-PATENT-CLASS-156-3 US-PATENT-3,356,549	N71-21819*	c 27	NASA-CASE-XLE-03494 US-PATENT-APPL-SN-529593 US-PATENT-CLASS-60-251 US-PATENT-3,345,822	N71-22874*	c 15	NASA-CASE-XLA-00188 US-PATENT-APPL-SN-254847 US-PATENT-CLASS-102-49.5 US-PATENT-3,368,486
N71-21449*	c 09	NASA-CASE-XMS-01991 US-PATENT-APPL-SN-410326 US-PATENT-CLASS-323-22 US-PATENT-3,344,340	N71-21821*	c 23	NASA-CASE-XNP-01059 US-PATENT-APPL-SN-393464 US-PATENT-CLASS-250-232 US-PATENT-3,354,320	N71-22875*	c 11	NASA-CASE-XAC-05333 US-PATENT-APPL-SN-546148 US-PATENT-CLASS-119-15 US-PATENT-3,367,308
N71-21473*	c 10	NASA-CASE-XGS-08679 US-PATENT-APPL-SN-312443 US-PATENT-CLASS-343-113 US-PATENT-3,340,532	N71-21822*	c 28	NASA-CASE-XNP-04124 US-PATENT-APPL-SN-498168 US-PATENT-CLASS-60-202 US-PATENT-3,345,820	N71-22877*	c 15	NASA-CASE-XMF-10040 US-PATENT-APPL-SN-592680 US-PATENT-CLASS-188-1 US-PATENT-3,381,778
N71-21474*	c 11	NASA-CASE-XMS-04798 US-PATENT-APPL-SN-480210 US-PATENT-CLASS-35-12 US-PATENT-3,330,052	N71-21824*	c 26	NASA-CASE-XNP-05429 US-PATENT-APPL-SN-578928 US-PATENT-CLASS-103-1 US-PATENT-3,361,067	N71-22878*	c 15	NASA-CASE-XMS-04545 US-PATENT-APPL-SN-508601 US-PATENT-CLASS-73-144 US-PATENT-3,381,527
N71-21475*	c 11	NASA-CASE-XLA-05378 US-PATENT-APPL-SN-484156 US-PATENT-CLASS-73-343 US-PATENT-3,331,246	N71-21881*	c 31	NASA-CASE-XNP-02595 US-PATENT-APPL-SN-502709 US-PATENT-CLASS-244-1 US-PATENT-3,333,788	N71-22880*	c 21	NASA-CASE-XLA-00793 US-PATENT-APPL-SN-369334 US-PATENT-CLASS-88-1 US-PATENT-3,381,569
N71-21476*	c 07	NASA-CASE-XNP-00746 US-PATENT-APPL-SN-271824 US-PATENT-CLASS-235-181 US-PATENT-3,359,409	N71-21882*	c 23	NASA-CASE-XNP-03853 US-PATENT-APPL-SN-578931 US-PATENT-CLASS-88-24 US-PATENT-3,359,855	N71-22881*	c 23	NASA-CASE-XLE-04222 US-PATENT-APPL-SN-512559 US-PATENT-CLASS-220-9 US-PATENT-3,379,330
N71-21481*	c 11	NASA-CASE-XLA-01326 US-PATENT-APPL-SN-422097 US-PATENT-CLASS-73-147	N71-22705*	c 15	NASA-CASE-XGS-02884 US-PATENT-APPL-SN-432433 US-PATENT-CLASS-51-57	N71-22888*	c 09	NASA-CASE-XLA-03114 US-PATENT-APPL-SN-440039 US-PATENT-CLASS-343-708

ACCESSION NUMBER INDEX

N71-23097

N71-22890*	c 33	US-PATENT-3,373,430 NASA-CASE-XLA-07728 US-PATENT-APPL-SN-538908 US-PATENT-CLASS-165-96 US-PATENT-3,374,830	N71-22993*	c 14	US-PATENT-3,377,845 NASA-CASE-XMS-05365 US-PATENT-APPL-SN-515484 US-PATENT-CLASS-310-8.5 US-PATENT-3,387,149	N71-23037*	c 14	US-PATENT-3,383,903 NASA-CASE-XAC-01662 US-PATENT-APPL-SN-385520 US-PATENT-CLASS-324-117 US-PATENT-3,365,665
N71-22894*	c 18	NASA-CASE-XLE-03925 US-PATENT-APPL-SN-514407 US-PATENT-CLASS-75-204 US-PATENT-3,337,337	N71-22994*	c 15	NASA-CASE-XFR-05421 US-PATENT-APPL-SN-567686 US-PATENT-CLASS-24-126 US-PATENT-3,378,892	N71-23039*	c 14	NASA-CASE-XNP-01659 US-PATENT-APPL-SN-410332 US-PATENT-CLASS-136-230 US-PATENT-3,377,208
N71-22895*	c 16	NASA-CASE-XMS-04269 US-PATENT-APPL-SN-516793 US-PATENT-CLASS-250-199 US-PATENT-3,341,708	N71-22995*	c 14	NASA-CASE-XNP-08680 US-PATENT-APPL-SN-562444 US-PATENT-CLASS-73-9 US-PATENT-3,376,730	N71-23040*	c 14	NASA-CASE-XNP-05535 US-PATENT-APPL-SN-487939 US-PATENT-CLASS-244-1 US-PATENT-3,339,863
N71-22896*	c 05	NASA-CASE-XMS-02399 US-PATENT-APPL-SN-492344 US-PATENT-CLASS-128-2.06 US-PATENT-3,384,075	N71-22996*	c 14	NASA-CASE-XGS-01331 US-PATENT-APPL-SN-445807 US-PATENT-CLASS-250-218 US-PATENT-3,388,258	N71-23041*	c 14	NASA-CASE-XNP-01056 US-PATENT-APPL-SN-377146 US-PATENT-CLASS-250-41.9 US-PATENT-3,340,395
N71-22897*	c 08	NASA-CASE-XNP-01753 US-PATENT-APPL-SN-423412 US-PATENT-CLASS-235-92 US-PATENT-3,374,339	N71-22997*	c 15	NASA-CASE-XNP-01641 US-PATENT-APPL-SN-464885 US-PATENT-CLASS-308-10 US-PATENT-3,378,315	N71-23042*	c 11	NASA-CASE-XMS-02930 US-PATENT-APPL-SN-417253 US-PATENT-CLASS-250-52 US-PATENT-3,340,397
N71-22961*	c 10	NASA-CASE-XMS-02159 US-PATENT-APPL-SN-534564 US-PATENT-CLASS-323-56 US-PATENT-3,365,657	N71-22998*	c 18	NASA-CASE-XGS-02435 US-PATENT-APPL-SN-392965 US-PATENT-CLASS-106-40 US-PATENT-3,382,082	N71-23043*	c 26	NASA-CASE-XNP-01959 US-PATENT-APPL-SN-410330 US-PATENT-CLASS-136-89 US-PATENT-3,396,057
N71-22962*	c 10	NASA-CASE-XGS-05441 US-PATENT-APPL-SN-505321 US-PATENT-CLASS-328-233 US-PATENT-3,366,886	N71-22999*	c 09	NASA-CASE-XLA-00781 US-PATENT-APPL-SN-307271 US-PATENT-CLASS-88-14 US-PATENT-3,364,813	N71-23046*	c 17	NASA-CASE-XNP-04338 US-PATENT-APPL-SN-461765 US-PATENT-CLASS-29-182.2 US-PATENT-3,421,864
N71-22964*	c 14	NASA-CASE-XLE-02024 US-PATENT-APPL-SN-422099 US-PATENT-CLASS-73-15 US-PATENT-3,365,930	N71-23001*	c 07	NASA-CASE-XGS-01812 US-PATENT-APPL-SN-392973 US-PATENT-CLASS-340-174.1 US-PATENT-3,380,042	N71-23047*	c 18	NASA-CASE-XLA-01995 US-PATENT-APPL-SN-411945 US-PATENT-CLASS-148-6.16 US-PATENT-3,395,053
N71-22965*	c 14	NASA-CASE-XGS-02319 US-PATENT-APPL-SN-496205 US-PATENT-CLASS-73-117 US-PATENT-3,365,941	N71-23006*	c 03	NASA-CASE-XGS-02631 US-PATENT-APPL-SN-425972 US-PATENT-CLASS-136-133 US-PATENT-3,340,099	N71-23048*	c 15	NASA-CASE-XNP-03972 US-PATENT-APPL-SN-502710 US-PATENT-CLASS-184-1 US-PATENT-3,367,445
N71-22968*	c 31	NASA-CASE-XLA-02050 US-PATENT-APPL-SN-568067 US-PATENT-CLASS-244-1 US-PATENT-3,386,685	N71-23007*	c 02	NASA-CASE-XMF-04163 US-PATENT-APPL-SN-424156 US-PATENT-CLASS-73-189 US-PATENT-3,340,732	N71-23049*	c 15	NASA-CASE-XMF-01049 US-PATENT-APPL-SN-506137 US-PATENT-CLASS-339-5 US-PATENT-3,375,479
N71-22969*	c 31	NASA-CASE-XLA-03132 US-PATENT-APPL-SN-610728 US-PATENT-CLASS-244-1 US-PATENT-3,386,686	N71-23008*	c 31	NASA-CASE-XLA-04804 US-PATENT-APPL-SN-577546 US-PATENT-CLASS-102-49.5 US-PATENT-3,384,016	N71-23050*	c 15	NASA-CASE-XMF-01730 US-PATENT-APPL-SN-517869 US-PATENT-CLASS-228-8 US-PATENT-3,373,914
N71-22974*	c 03	NASA-CASE-XGS-02630 US-PATENT-APPL-SN-494287 US-PATENT-CLASS-136-132 US-PATENT-3,382,107	N71-23009*	c 31	NASA-CASE-XGS-02607 US-PATENT-APPL-SN-474531 US-PATENT-CLASS-244-1 US-PATENT-3,341,151	N71-23051*	c 15	NASA-CASE-XAC-01158 US-PATENT-APPL-SN-420250 US-PATENT-CLASS-137-625.5 US-PATENT-3,369,564
N71-22975*	c 06	NASA-CASE-XNP-07659 US-PATENT-APPL-SN-567806 US-PATENT-CLASS-18-26 US-PATENT-3,381,339	N71-23015*	c 09	NASA-CASE-XGS-02751 US-PATENT-APPL-SN-491059 US-PATENT-CLASS-307-288 US-PATENT-3,374,366	N71-23052*	c 15	NASA-CASE-XLA-03497 US-PATENT-APPL-SN-392992 US-PATENT-CLASS-156-285 US-PATENT-3,373,069
N71-22982*	c 15	NASA-CASE-XLA-02809 US-PATENT-APPL-SN-554897 US-PATENT-CLASS-308-176 US-PATENT-3,397,932	N71-23021*	c 09	NASA-CASE-XAC-02807 US-PATENT-APPL-SN-456581 US-PATENT-CLASS-324-120 US-PATENT-3,384,820	N71-23080*	c 05	NASA-CASE-XLE-02531 US-PATENT-APPL-SN-425096 US-PATENT-CLASS-312-1 US-PATENT-3,337,279
N71-22983*	c 28	NASA-CASE-XMF-06926 US-PATENT-APPL-SN-537615 US-PATENT-CLASS-60-258 US-PATENT-3,336,754	N71-23022*	c 15	NASA-CASE-XMS-01625 US-PATENT-APPL-SN-418933 US-PATENT-CLASS-136-86 US-PATENT-3,389,017	N71-23081*	c 28	NASA-CASE-XNP-02923 US-PATENT-APPL-SN-494280 US-PATENT-CLASS-60-202 US-PATENT-3,367,114
N71-22984*	c 07	NASA-CASE-XMS-04312 US-PATENT-APPL-SN-521754 US-PATENT-CLASS-343-708 US-PATENT-3,384,895	N71-23023*	c 15	NASA-CASE-XMF-04042 US-PATENT-APPL-SN-605518 US-PATENT-CLASS-55-204 US-PATENT-3,397,512	N71-23084*	c 10	NASA-CASE-XLA-01219 US-PATENT-APPL-SN-402978 US-PATENT-CLASS-332-1 US-PATENT-3,366,894
N71-22985*	c 09	NASA-CASE-XMF-03934 US-PATENT-APPL-SN-530958 US-PATENT-CLASS-250-83.3 US-PATENT-3,379,885	N71-23024*	c 15	NASA-CASE-XNP-01747 US-PATENT-APPL-SN-413661 US-PATENT-CLASS-251-148 US-PATENT-3,341,169	N71-23085*	c 33	NASA-CASE-XFR-03802 US-PATENT-APPL-SN-460877 US-PATENT-CLASS-73-190 US-PATENT-3,367,182
N71-22986*	c 10	NASA-CASE-XMF-01892 US-PATENT-APPL-SN-464878 US-PATENT-CLASS-328-167 US-PATENT-3,375,451	N71-23025*	c 15	NASA-CASE-XNP-08877 US-PATENT-APPL-SN-574282 US-PATENT-CLASS-62-6 US-PATENT-3,367,121	N71-23086*	c 15	NASA-CASE-XMS-04533 US-PATENT-APPL-SN-557016 US-PATENT-CLASS-202-234 US-PATENT-3,397,117
N71-22987*	c 09	NASA-CASE-XLE-04788 US-PATENT-APPL-SN-537617 US-PATENT-CLASS-313-352 US-PATENT-3,396,303	N71-23026*	c 07	NASA-CASE-XNP-02791 US-PATENT-APPL-SN-390251 US-PATENT-CLASS-178-6 US-PATENT-3,383,461	N71-23087*	c 14	NASA-CASE-XNP-03918 US-PATENT-APPL-SN-510475 US-PATENT-CLASS-73-88.5 US-PATENT-3,388,590
N71-22988*	c 09	NASA-CASE-XGS-03304 US-PATENT-APPL-SN-483886 US-PATENT-CLASS-73-1 US-PATENT-3,381,517	N71-23027*	c 09	NASA-CASE-XNP-01960 US-PATENT-APPL-SN-438135 US-PATENT-CLASS-29-572 US-PATENT-3,340,599	N71-23088*	c 18	NASA-CASE-XNP-00597 US-PATENT-APPL-SN-410325 US-PATENT-CLASS-65-7 US-PATENT-3,337,315
N71-22989*	c 14	NASA-CASE-XLA-01551 US-PATENT-APPL-SN-422092 US-PATENT-CLASS-73-190 US-PATENT-3,382,714	N71-23029*	c 10	NASA-CASE-XGS-03427 US-PATENT-APPL-SN-500446 US-PATENT-CLASS-307-265 US-PATENT-3,383,524	N71-23092*	c 14	NASA-CASE-XLA-01530 US-PATENT-APPL-SN-420466 US-PATENT-CLASS-188-1 US-PATENT-3,337,004
N71-22990*	c 14	NASA-CASE-XMS-04201 US-PATENT-APPL-SN-507254 US-PATENT-CLASS-324-70 US-PATENT-3,379,974	N71-23030*	c 11	NASA-CASE-XNP-03578 US-PATENT-APPL-SN-445292 US-PATENT-CLASS-73-147 US-PATENT-3,342,066	N71-23093*	c 14	NASA-CASE-XLE-03280 US-PATENT-APPL-SN-517156 US-PATENT-CLASS-73-400 US-PATENT-3,379,064
N71-22991*	c 14	NASA-CASE-XLA-01791 US-PATENT-APPL-SN-462763 US-PATENT-CLASS-250-227 US-PATENT-3,397,318	N71-23033*	c 10	NASA-CASE-XNP-01318 US-PATENT-APPL-SN-380965 US-PATENT-CLASS-340-174 US-PATENT-3,388,387	N71-23096*	c 05	NASA-CASE-XMS-06064 US-PATENT-APPL-SN-563646 US-PATENT-CLASS-2-14 US-PATENT-3,378,851
N71-22992*	c 14	NASA-CASE-XGS-01023 US-PATENT-APPL-SN-446131 US-PATENT-CLASS-73-65	N71-23036*	c 14	NASA-CASE-XNP-01660 US-PATENT-APPL-SN-578916 US-PATENT-CLASS-73-4	N71-23097*	c 09	NASA-CASE-XNP-02140 US-PATENT-APPL-SN-440036 US-PATENT-CLASS-330-61

N71-23098*	c 07	US-PATENT-3,337,812 NASA-CASE-XGS-00740 US-PATENT-APPL-SN-353644 US-PATENT-CLASS-325-305 US-PATENT-3,341,778	N71-23269*	c 14	US-PATENT-3,419,329 NASA-CASE-XLA-01584 US-PATENT-APPL-SN-416943 US-PATENT-CLASS-250-203 US-PATENT-3,389,260	N71-23544*	c 10	US-PATENT-3,393,347 NASA-CASE-XNP-05382 US-PATENT-APPL-SN-536217 US-PATENT-CLASS-332-19 US-PATENT-3,393,380
N71-23099*	c 10	NASA-CASE-XNP-08875 US-PATENT-APPL-SN-640455 US-PATENT-CLASS-343-6.5 US-PATENT-3,380,049	N71-23270*	c 09	NASA-CASE-XMS-04919 US-PATENT-APPL-SN-516155 US-PATENT-CLASS-307-263 US-PATENT-3,417,266	N71-23545*	c 09	NASA-CASE-XMF-04367 US-PATENT-APPL-SN-457874 US-PATENT-CLASS-307-235 US-PATENT-3,404,289
N71-23159*	c 05	NASA-CASE-XMF-06589 US-PATENT-APPL-SN-543206 US-PATENT-CLASS-5-82 US-PATENT-3,343,180	N71-23271*	c 10	NASA-CASE-XNP-00952 US-PATENT-APPL-SN-388967 US-PATENT-CLASS-317-148.5 US-PATENT-3,417,298	N71-23548*	c 09	NASA-CASE-XNP-06507 US-PATENT-APPL-SN-605099 US-PATENT-CLASS-333-98 US-PATENT-3,419,827
N71-23161*	c 05	NASA-CASE-XAC-07043 US-PATENT-APPL-SN-566397 US-PATENT-CLASS-2-2.1 US-PATENT-3,405,406	N71-23289*	c 21	NASA-CASE-XMF-01669 US-PATENT-APPL-SN-399419 US-PATENT-CLASS-74-5.47 US-PATENT-3,415,126	N71-23573*	c 09	NASA-CASE-XGS-01418 US-PATENT-APPL-SN-392969 US-PATENT-CLASS-333-73 US-PATENT-3,393,384
N71-23174*	c 14	NASA-CASE-XGS-02610 US-PATENT-APPL-SN-491054 US-PATENT-CLASS-321-60 US-PATENT-3,417,316	N71-23292*	c 26	NASA-CASE-XLE-10715 US-PATENT-APPL-SN-603397 US-PATENT-CLASS-252-62.3 US-PATENT-3,409,554	N71-23598*	c 09	NASA-CASE-XER-11019 US-PATENT-APPL-SN-711971 US-PATENT-CLASS-331-78 US-PATENT-3,470,489
N71-23175*	c 14	NASA-CASE-XKS-03509 US-PATENT-APPL-SN-566392 US-PATENT-CLASS-356-166 US-PATENT-3,414,358	N71-23293*	c 28	NASA-CASE-XNP-06942 US-PATENT-APPL-SN-563851 US-PATENT-CLASS-60-202 US-PATENT-3,412,559	N71-23599*	c 22	NASA-CASE-XLE-01903 US-PATENT-APPL-SN-466868 US-PATENT-CLASS-310-4 US-PATENT-3,393,330
N71-23185*	c 04	NASA-CASE-XAC-05422 US-PATENT-APPL-SN-483885 US-PATENT-CLASS-128-2.05 US-PATENT-3,412,729	N71-23295*	c 08	NASA-CASE-XNP-04819 US-PATENT-APPL-SN-502701 US-PATENT-CLASS-340-146.2 US-PATENT-3,390,378	N71-23654*	c 26	NASA-CASE-XLE-02798 US-PATENT-APPL-SN-660571 US-PATENT-CLASS-148-1.5 US-PATENT-3,390,020
N71-23187*	c 03	NASA-CASE-XGS-03390 US-PATENT-APPL-SN-551182 US-PATENT-CLASS-136-89 US-PATENT-3,419,433	N71-23311*	c 09	NASA-CASE-XGS-03832 US-PATENT-APPL-SN-502739 US-PATENT-CLASS-307-260 US-PATENT-3,390,282	N71-23658*	c 18	NASA-CASE-XLE-02647 US-PATENT-APPL-SN-430226 US-PATENT-CLASS-220-9 US-PATENT-3,392,864
N71-23188*	c 09	NASA-CASE-XMF-14301 US-PATENT-APPL-SN-697341 US-PATENT-CLASS-321-2 US-PATENT-3,470,446	N71-23315*	c 10	NASA-CASE-XLA-03356 US-PATENT-APPL-SN-536216 US-PATENT-CLASS-307-234 US-PATENT-3,448,290	N71-23662*	c 10	NASA-CASE-XGS-01118 US-PATENT-APPL-SN-408442 US-PATENT-CLASS-235-154 US-PATENT-3,399,299
N71-23189*	c 09	NASA-CASE-XNP-06028 US-PATENT-APPL-SN-649356 US-PATENT-CLASS-315-26 US-PATENT-3,431,460	N71-23316*	c 09	NASA-CASE-XMS-09352 US-PATENT-APPL-SN-564919 US-PATENT-CLASS-323-22 US-PATENT-3,417,321	N71-23663*	c 10	NASA-CASE-XKS-04631 US-PATENT-APPL-SN-663180 US-PATENT-CLASS-200-82 US-PATENT-3,433,909
N71-23190*	c 09	NASA-CASE-XLE-04501 US-PATENT-APPL-SN-522794 US-PATENT-CLASS-313-231 US-PATENT-3,413,510	N71-23317*	c 05	NASA-CASE-XMS-06061 US-PATENT-APPL-SN-605092 US-PATENT-CLASS-307-260 US-PATENT-3,467,837	N71-23669*	c 10	NASA-CASE-XAC-10607 US-PATENT-APPL-SN-694345 US-PATENT-CLASS-331-111 US-PATENT-3,470,495
N71-23191*	c 09	NASA-CASE-XMS-05890 US-PATENT-APPL-SN-650166 US-PATENT-CLASS-137-554 US-PATENT-3,414,012	N71-23336*	c 03	NASA-CASE-XGS-01513 US-PATENT-APPL-SN-502756 US-PATENT-CLASS-136-166 US-PATENT-3,390,017	N71-23698*	c 14	NASA-CASE-XGS-08259 US-PATENT-APPL-SN-666551 US-PATENT-CLASS-242-192 US-PATENT-3,460,781
N71-23225*	c 14	NASA-CASE-XNP-04817 US-PATENT-APPL-SN-516152 US-PATENT-CLASS-73-12 US-PATENT-3,412,598	N71-23354*	c 03	NASA-CASE-XLE-04535 US-PATENT-APPL-SN-588671 US-PATENT-CLASS-250-212 US-PATENT-3,437,818	N71-23699*	c 14	NASA-CASE-XMF-10289 US-PATENT-APPL-SN-674356 US-PATENT-CLASS-324-72 US-PATENT-3,470,466
N71-23226*	c 14	NASA-CASE-XNP-06509 US-PATENT-APPL-SN-570095 US-PATENT-CLASS-73-194 US-PATENT-3,411,356	N71-23365*	c 17	NASA-CASE-XNP-03063 US-PATENT-APPL-SN-521994 US-PATENT-CLASS-75-172 US-PATENT-3,413,115	N71-23710*	c 18	NASA-CASE-XLE-08511 US-PATENT-APPL-SN-635972 US-PATENT-CLASS-29-182.1 US-PATENT-3,419,363
N71-23227*	c 14	NASA-CASE-XMF-06515 US-PATENT-APPL-SN-548808 US-PATENT-CLASS-73-432 US-PATENT-3,408,870	N71-23401*	c 14	NASA-CASE-XGS-03230 US-PATENT-APPL-SN-517158 US-PATENT-CLASS-250-83 US-PATENT-3,419,992	N71-23723*	c 30	NASA-CASE-XNP-09832 US-PATENT-APPL-SN-632163 US-PATENT-CLASS-343-100 US-PATENT-3,417,399
N71-23230*	c 06	NASA-CASE-XMF-06409 US-PATENT-APPL-SN-575930 US-PATENT-CLASS-260-448.2 US-PATENT-3,433,818	N71-23405*	c 07	NASA-CASE-XGS-01537 US-PATENT-APPL-SN-432026 US-PATENT-CLASS-325-163 US-PATENT-3,417,332	N71-23725*	c 14	NASA-CASE-XGS-01013 US-PATENT-APPL-SN-665209 US-PATENT-CLASS-73-133 US-PATENT-3,460,381
N71-23239*	c 03	NASA-CASE-XMF-08217 US-PATENT-APPL-SN-688807 US-PATENT-CLASS-321-2 US-PATENT-3,470,443	N71-23443*	c 09	NASA-CASE-XLE-02823 US-PATENT-APPL-SN-491058 US-PATENT-CLASS-310-10 US-PATENT-3,393,332	N71-23726*	c 14	NASA-CASE-XMF-05224 US-PATENT-APPL-SN-660842 US-PATENT-CLASS-73-189 US-PATENT-3,465,584
N71-23240*	c 14	NASA-CASE-XLA-00941 US-PATENT-APPL-SN-508873 US-PATENT-CLASS-250-227 US-PATENT-3,407,304	N71-23449*	c 03	NASA-CASE-XLE-08569 US-PATENT-APPL-SN-641420 US-PATENT-CLASS-136-89 US-PATENT-3,472,698	N71-23755*	c 14	NASA-CASE-XMF-04134 US-PATENT-APPL-SN-610723 US-PATENT-CLASS-73-4 US-PATENT-3,472,059
N71-23248*	c 17	NASA-CASE-XLE-03629 US-PATENT-APPL-SN-554950 US-PATENT-CLASS-75-170 US-PATENT-3,415,643	N71-23497*	c 01	NASA-CASE-XLA-01486 US-PATENT-APPL-SN-484485 US-PATENT-CLASS-244-13 US-PATENT-3,392,936	N71-23790*	c 14	NASA-CASE-XAC-04885 US-PATENT-APPL-SN-573432 US-PATENT-CLASS-73-141 US-PATENT-3,415,116
N71-23254*	c 15	NASA-CASE-XFR-05302 US-PATENT-APPL-SN-685463 US-PATENT-CLASS-85-7 US-PATENT-3,443,472	N71-23499*	c 06	NASA-CASE-XNP-03835 US-PATENT-APPL-SN-456874 US-PATENT-CLASS-44-77 US-PATENT-3,393,059	N71-23797*	c 14	NASA-CASE-XNP-06510 US-PATENT-APPL-SN-562445 US-PATENT-CLASS-250-203 US-PATENT-3,417,247
N71-23255*	c 15	NASA-CASE-XMS-07487 US-PATENT-APPL-SN-580365 US-PATENT-CLASS-244-83 US-PATENT-3,409,252	N71-23500*	c 06	NASA-CASE-XNP-03250 US-PATENT-APPL-SN-485058 US-PATENT-CLASS-260-85.5 US-PATENT-3,419,537	N71-23798*	c 15	NASA-CASE-XMF-02330 US-PATENT-APPL-SN-608944 US-PATENT-CLASS-219-130 US-PATENT-3,469,069
N71-23256*	c 15	NASA-CASE-XMF-03290 US-PATENT-APPL-SN-479353 US-PATENT-CLASS-53-22 US-PATENT-3,415,032	N71-23525*	c 09	NASA-CASE-XGS-02317 US-PATENT-APPL-SN-576183 US-PATENT-CLASS-328-61 US-PATENT-3,464,018	N71-23809*	c 15	NASA-CASE-XAC-10019 US-PATENT-APPL-SN-686209 US-PATENT-CLASS-74-89.18 US-PATENT-3,472,086
N71-23267*	c 14	NASA-CASE-XLE-04026 US-PATENT-APPL-SN-617770 US-PATENT-CLASS-13-26 US-PATENT-3,470,304	N71-23527*	c 06	NASA-CASE-XLE-01997 US-PATENT-APPL-SN-427990 US-PATENT-CLASS-23-230 US-PATENT-3,472,625	N71-23810*	c 15	NASA-CASE-XLE-05033 US-PATENT-APPL-SN-510474 US-PATENT-CLASS-252-12 US-PATENT-3,466,243
N71-23268*	c 14	NASA-CASE-XLA-01907 US-PATENT-APPL-SN-335441 US-PATENT-CLASS-356-72	N71-23543*	c 10	NASA-CASE-XMS-00913 US-PATENT-APPL-SN-416945 US-PATENT-CLASS-317-31	N71-23811*	c 15	NASA-CASE-XNP-05297 US-PATENT-APPL-SN-640458 US-PATENT-CLASS-72-354

N71-23812*	c 15	US-PATENT-3,443,412	N71-24232*	c 14	US-PATENT-3,434,855	N71-24623*	c 05	US-PATENT-CLASS-324-77
		NASA-CASE-XMF-07808			NASA-CASE-XAC-04458			US-PATENT-3,548,107
		US-PATENT-APPL-SN-684178			US-PATENT-APPL-SN-534975			NASA-CASE-XMS-09635
		US-PATENT-CLASS-308-2			US-PATENT-CLASS-73-400			US-PATENT-APPL-SN-586329
N71-23815*	c 15	US-PATENT-3,463,563	N71-24233*	c 14	US-PATENT-3,392,586	N71-24624*	c 07	US-PATENT-CLASS-2-2.1
		NASA-CASE-XMF-07069			NASA-CASE-XGS-04478			US-PATENT-3,516,091
		US-PATENT-APPL-SN-672382			US-PATENT-APPL-SN-566717			NASA-CASE-GSC-10131-1
		US-PATENT-CLASS-219-125			US-PATENT-CLASS-73-88.5			US-PATENT-APPL-SN-754055
N71-23816*	c 15	US-PATENT-3,469,068	N71-24234*	c 14	US-PATENT-3,460,378	N71-24625*	c 07	US-PATENT-CLASS-340-172.5
		NASA-CASE-XLE-03803			NASA-CASE-XMF-10968			US-PATENT-3,546,684
		US-PATENT-APPL-SN-505765			US-PATENT-APPL-SN-644447			NASA-CASE-XMS-09610
		US-PATENT-CLASS-220-9			US-PATENT-CLASS-73-15.6			US-PATENT-APPL-SN-766170
N71-23817*	c 15	US-PATENT-3,392,865	N71-24276*	c 33	US-PATENT-3,469,437	N71-24633*	c 08	US-PATENT-CLASS-343-113
		NASA-CASE-XLE-06773			NASA-CASE-XLA-02059			US-PATENT-3,540,054
		US-PATENT-APPL-SN-646124			US-PATENT-APPL-SN-576182			NASA-CASE-NPO-10567
		US-PATENT-CLASS-72-467			US-PATENT-CLASS-165-12			US-PATENT-APPL-SN-679055
N71-23828*	c 17	US-PATENT-3,469,436	N71-24285*	c 32	US-PATENT-3,406,742	N71-24650*	c 08	US-PATENT-CLASS-235-153
		NASA-CASE-XMF-02303			NASA-CASE-XMF-02392			US-PATENT-3,517,171
		US-PATENT-APPL-SN-453229			US-PATENT-APPL-SN-596735			NASA-CASE-NPO-10150
		US-PATENT-CLASS-148-6.20			US-PATENT-CLASS-73-49.2			US-PATENT-APPL-SN-680843
N71-23912*	c 31	US-PATENT-3,416,975	N71-24315*	c 31	US-PATENT-3,399,574	N71-24679*	c 15	US-PATENT-CLASS-340-347
		NASA-CASE-XMF-05941			NASA-CASE-XLA-04901			US-PATENT-3,537,103
		US-PATENT-APPL-SN-653277			US-PATENT-APPL-SN-586325			NASA-CASE-XNP-10475
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-244-1			US-PATENT-APPL-SN-763868
N71-23968*	c 28	US-PATENT-3,443,773	N71-24321*	c 28	US-PATENT-3,405,887	N71-24681*	c 03	US-PATENT-CLASS-72-369
		NASA-CASE-XLE-04857			NASA-CASE-XNP-03692			US-PATENT-3,546,917
		US-PATENT-APPL-SN-621742			US-PATENT-APPL-SN-640787			NASA-CASE-XLE-08569-2
		US-PATENT-CLASS-239-127.1			US-PATENT-CLASS-60-263			US-PATENT-APPL-SN-829825
N71-23971*	c 32	US-PATENT-3,460,759	N71-24583*	c 07	US-PATENT-3,443,384	N71-24692*	c 12	US-PATENT-CLASS-29-572
		NASA-CASE-XAC-05632			NASA-CASE-NPO-10096			US-PATENT-3,541,679
		US-PATENT-APPL-SN-568355			US-PATENT-APPL-SN-730700			NASA-CASE-XFR-02007
		US-PATENT-CLASS-244-77			US-PATENT-CLASS-329-140			US-PATENT-APPL-SN-378080
N71-23976*	c 23	US-PATENT-3,412,961	N71-24595*	c 09	US-PATENT-3,533,001	N71-24693*	c 14	US-PATENT-CLASS-73-389
		NASA-CASE-XLA-01987			NASA-CASE-GSC-10021-1			US-PATENT-3,273,399
		US-PATENT-APPL-SN-542713			US-PATENT-APPL-SN-790420			NASA-CASE-XMF-04415
		US-PATENT-CLASS-346-107			US-PATENT-CLASS-343-7.5			US-PATENT-APPL-SN-644446
N71-24035*	c 31	US-PATENT-3,392,403	N71-24596*	c 09	US-PATENT-3,540,045	N71-24694*	c 15	US-PATENT-CLASS-33-174
		NASA-CASE-XLA-01027			NASA-CASE-XNP-01306-2			US-PATENT-3,360,864
		US-PATENT-APPL-SN-494283			US-PATENT-APPL-SN-684083			NASA-CASE-GSC-10306-1
		US-PATENT-CLASS-52-272			US-PATENT-CLASS-328-133			US-PATENT-APPL-SN-789278
N71-24042*	c 15	US-PATENT-3,416,274	N71-24597*	c 09	US-PATENT-3,509,475	N71-24695*	c 15	US-PATENT-CLASS-248-358
		NASA-CASE-XNP-04731			NASA-CASE-ARC-10132-1			US-PATENT-3,537,672
		US-PATENT-APPL-SN-534966			US-PATENT-APPL-SN-759460			NASA-CASE-XNP-06936
		US-PATENT-CLASS-103-48			US-PATENT-CLASS-73-398			US-PATENT-APPL-SN-640786
N71-24043*	c 15	US-PATENT-3,367,271	N71-24599*	c 15	US-PATENT-3,545,275	N71-24696*	c 15	US-PATENT-CLASS-318-382
		NASA-CASE-XKS-03338			NASA-CASE-MS-12052-1			US-PATENT-3,487,281
		US-PATENT-APPL-SN-547072			US-PATENT-APPL-SN-770371			NASA-CASE-NPO-10173
		US-PATENT-CLASS-89-1.806			US-PATENT-CLASS-254-150			US-PATENT-APPL-SN-796360
N71-24044*	c 15	US-PATENT-3,415,156	N71-24600*	c 15	US-PATENT-CLASS-254-173	N71-24717*	c 09	US-PATENT-CLASS-310-101
		NASA-CASE-XMF-06888			US-PATENT-CLASS-254-186			US-PATENT-3,535,570
		US-PATENT-APPL-SN-591000			US-PATENT-CLASS-254-186			NASA-CASE-XMF-08804
		US-PATENT-CLASS-62-40			US-PATENT-3,545,725			US-PATENT-APPL-SN-683606
N71-24045*	c 15	US-PATENT-3,415,069	N71-24606*	c 15	US-PATENT-3,545,725	N71-24718*	c 03	US-PATENT-CLASS-324-181
		NASA-CASE-XGS-04548			NASA-CASE-XGS-08718			US-PATENT-3,543,159
		US-PATENT-APPL-SN-672383			US-PATENT-APPL-SN-785611			US-PATENT-APPL-SN-751198
		US-PATENT-CLASS-74-100			US-PATENT-CLASS-244-1			US-PATENT-CLASS-204-305
N71-24046*	c 15	US-PATENT-3,460,397	N71-24605*	c 03	US-PATENT-CLASS-74-2	N71-24719*	c 03	US-PATENT-3,547,801
		NASA-CASE-XLE-10337			US-PATENT-CLASS-89-1.5			NASA-CASE-GSC-10487-1
		US-PATENT-APPL-SN-594633			US-PATENT-CLASS-9-9			US-PATENT-APPL-SN-828983
		US-PATENT-CLASS-252-26			US-PATENT-3,540,676			US-PATENT-CLASS-320-39
N71-24047*	c 15	US-PATENT-3,391,080	N71-24607*	c 06	US-PATENT-CLASS-244-150	N71-24728*	c 05	US-PATENT-3,541,422
		NASA-CASE-XGS-03120			US-PATENT-CLASS-74-2			NASA-CASE-MS-10960-1
		US-PATENT-APPL-SN-485958			US-PATENT-CLASS-89-1.5			US-PATENT-APPL-SN-751198
		US-PATENT-CLASS-156-3			US-PATENT-CLASS-9-9			US-PATENT-CLASS-204-305
N71-24074*	c 16	US-PATENT-3,470,043	N71-24606*	c 05	US-PATENT-3,508,347	N71-24729*	c 05	US-PATENT-3,547,801
		NASA-CASE-XLA-03375			US-PATENT-CLASS-35-17			NASA-CASE-GSC-10487-1
		US-PATENT-APPL-SN-512562			US-PATENT-CLASS-308-347			US-PATENT-APPL-SN-828983
		US-PATENT-CLASS-356-104			US-PATENT-CLASS-73-17			US-PATENT-CLASS-320-39
N71-24142*	c 17	US-PATENT-3,446,558	N71-24612*	c 07	US-PATENT-3,508,347	N71-24730*	c 05	US-PATENT-3,541,422
		NASA-CASE-XLE-06969			NASA-CASE-XNP-09699			NASA-CASE-GSC-10188-1
		US-PATENT-APPL-SN-655675			US-PATENT-APPL-SN-711972			US-PATENT-APPL-SN-791888
		US-PATENT-CLASS-148-126			US-PATENT-CLASS-73-17			US-PATENT-CLASS-62-384
N71-24145*	c 33	US-PATENT-3,463,679	N71-24613*	c 07	US-PATENT-3,546,920	N71-24736*	c 28	US-PATENT-3,545,226
		NASA-CASE-XLE-03432			NASA-CASE-XMF-06092			NASA-CASE-MS-12243-1
		US-PATENT-APPL-SN-559349			US-PATENT-APPL-SN-550088			US-PATENT-APPL-SN-8498
		US-PATENT-CLASS-13-35			US-PATENT-CLASS-178-7.1			US-PATENT-CLASS-128-2.1
N71-24147*	c 05	US-PATENT-3,409,730	N71-24614*	c 07	US-PATENT-3,470,318	N71-24737*	c 05	US-PATENT-3,548,812
		NASA-CASE-XMS-10269			US-PATENT-CLASS-343-100			NASA-CASE-XMS-09637-1
		US-PATENT-APPL-SN-590158			US-PATENT-CLASS-343-100			US-PATENT-APPL-SN-785710
		US-PATENT-CLASS-165-46			US-PATENT-CLASS-343-100			US-PATENT-CLASS-2-2.1
N71-24164*	c 15	US-PATENT-3,425,486	N71-24618*	c 09	US-PATENT-3,546,386	N71-24738*	c 05	US-PATENT-3,537,107
		NASA-CASE-XLA-01494			US-PATENT-CLASS-343-703			NASA-CASE-XLE-03157
		US-PATENT-APPL-SN-499122			US-PATENT-CLASS-343-100			US-PATENT-APPL-SN-591014
		US-PATENT-CLASS-156-545			US-PATENT-CLASS-343-100			US-PATENT-CLASS-60-240
N71-24170*	c 16	US-PATENT-3,416,988	N71-24622*	c 07	US-PATENT-3,547,105	N71-24739*	c 06	US-PATENT-3,408,816
		NASA-CASE-XLA-04295			US-PATENT-CLASS-179-15			NASA-CASE-ARC-10100-1
		US-PATENT-APPL-SN-546149			US-PATENT-CLASS-179-15			US-PATENT-APPL-SN-797058
		US-PATENT-CLASS-356-107			US-PATENT-CLASS-128-2.06			US-PATENT-CLASS-128-24
N71-24183*	c 18	US-PATENT-3,468,609	N71-24621*	c 07	US-PATENT-3,547,105	N71-24740*	c 06	US-PATENT-CLASS-128-25
		NASA-CASE-XGS-04799			NASA-CASE-GSC-10118-1			US-PATENT-3,550,585
		US-PATENT-APPL-SN-452944			US-PATENT-APPL-SN-783375			NASA-CASE-ARC-10098-1
		US-PATENT-CLASS-106-84			US-PATENT-CLASS-179-15			US-PATENT-APPL-SN-702967
N71-24184*	c 18	US-PATENT-3,416,939	N71-24622*	c 07	US-PATENT-3,546,386	N71-24741*	c 07	US-PATENT-CLASS-260-2.5
		NASA-CASE-XNP-02139			NASA-CASE-NPO-10388			US-PATENT-3,549,564
		US-PATENT-APPL-SN-430777			US-PATENT-APPL-SN-725432			NASA-CASE-XMF-03074
		US-PATENT-CLASS-106-84			US-PATENT-CLASS-179-15			US-PATENT-APPL-SN-593595

		US-PATENT-APPL-SN-704465			US-PATENT-APPL-SN-698630	N71-24910*	c 15	NASA-CASE-ERC-10045
		US-PATENT-CLASS-235-152			US-PATENT-CLASS-333-83			US-PATENT-APPL-SN-763685
		US-PATENT-3,541,314			US-PATENT-3,541,479			US-PATENT-CLASS-73-40.7
N71-24742*	c 07	NASA-CASE-NPO-10140	N71-24842*	c 09	NASA-CASE-MSC-12209			US-PATENT-3,548,636
		US-PATENT-APPL-SN-691737			US-PATENT-APPL-SN-881039	N71-24911*	c 17	NASA-CASE-XLE-04946
		US-PATENT-CLASS-187-7.1			US-PATENT-CLASS-343-797			US-PATENT-APPL-SN-605093
		US-PATENT-3,541,250			US-PATENT-3,546,705			US-PATENT-CLASS-118-308
N71-24750*	c 31	NASA-CASE-XGS-01654	N71-24843*	c 09	NASA-CASE-XMF-06617			US-PATENT-3,472,202
		US-PATENT-APPL-SN-434148			US-PATENT-APPL-SN-656993	N71-24934*	c 18	NASA-CASE-NPO-10051
		US-PATENT-CLASS-102-50			US-PATENT-CLASS-324-71			US-PATENT-APPL-SN-711898
		US-PATENT-3,282,541			US-PATENT-3,541,439			US-PATENT-CLASS-73-38
N71-24798*	c 10	NASA-CASE-XLE-03061-1	N71-24844*	c 10	NASA-CASE-NPO-10169			US-PATENT-3,548,633
		US-PATENT-APPL-SN-632152			US-PATENT-APPL-SN-701733	N71-24948*	c 21	NASA-CASE-ERC-10090
		US-PATENT-CLASS-340-412			US-PATENT-CLASS-328-171			US-PATENT-APPL-SN-811542
		US-PATENT-3,546,694			US-PATENT-3,541,459			US-PATENT-CLASS-343-112
N71-24799*	c 10	NASA-CASE-XNP-06505	N71-24857*	c 23	NASA-CASE-XMS-06056-1	N71-24964*	c 11	US-PATENT-3,550,129
		US-PATENT-APPL-SN-562933			US-PATENT-APPL-SN-532006			NASA-CASE-NPO-10141
		US-PATENT-CLASS-307-254			US-PATENT-CLASS-350-189			US-PATENT-APPL-SN-673227
		US-PATENT-3,501,648			US-PATENT-3,472,577			US-PATENT-CLASS-62-55.5
N71-24800*	c 09	NASA-CASE-ERC-10075	N71-24858*	c 33	NASA-CASE-MFS-14253			US-PATENT-3,443,390
		US-PATENT-APPL-SN-775870			US-PATENT-APPL-SN-709622	N71-24984*	c 15	NASA-CASE-MFS-14971
		US-PATENT-CLASS-321-45			US-PATENT-CLASS-161-69			US-PATENT-APPL-SN-827579
		US-PATENT-3,539,905			US-PATENT-3,551,266			US-PATENT-CLASS-74-468
N71-24803*	c 09	NASA-CASE-NPO-10242	N71-24861*	c 10	NASA-CASE-XMF-05195			US-PATENT-3,541,875
		US-PATENT-APPL-SN-749181			US-PATENT-APPL-SN-785595	N71-24985*	c 11	NASA-CASE-KSC-10126
		US-PATENT-CLASS-307-88			US-PATENT-CLASS-318-599			US-PATENT-APPL-SN-845973
		US-PATENT-3,541,346			US-PATENT-3,523,228			US-PATENT-CLASS-73-15
N71-24804*	c 09	NASA-CASE-GSC-10299-1	N71-24862*	c 10	NASA-CASE-FRC-10010			US-PATENT-3,545,252
		US-PATENT-APPL-SN-836367			US-PATENT-APPL-SN-771937	N71-25139*	c 10	NASA-CASE-MFS-10068
		US-PATENT-CLASS-343-100			US-PATENT-CLASS-307-235			US-PATENT-APPL-SN-700541
		US-PATENT-3,540,050			US-PATENT-3,543,050			US-PATENT-CLASS-321-9
N71-24805*	c 09	NASA-CASE-XMF-06892	N71-24863*	c 10	NASA-CASE-XMF-02966			US-PATENT-3,487,288
		US-PATENT-APPL-SN-757875			US-PATENT-APPL-SN-560968	N71-25213*	c 28	NASA-CASE-GSC-10709-1
		US-PATENT-CLASS-318-318			US-PATENT-CLASS-324-70			US-PATENT-APPL-SN-791288
		US-PATENT-3,546,553			US-PATENT-3,406,336			US-PATENT-CLASS-60-202
N71-24806*	c 09	NASA-CASE-NPO-10198	N71-24864*	c 14	NASA-CASE-XLE-04503			US-PATENT-3,545,208
		US-PATENT-APPL-SN-723804			US-PATENT-APPL-SN-606463	N71-25351*	c 33	NASA-CASE-MFS-14023
		US-PATENT-CLASS-328-165			US-PATENT-CLASS-250-225			US-PATENT-APPL-SN-795217
		US-PATENT-3,550,023			US-PATENT-3,546,471			US-PATENT-CLASS-161-161
N71-24807*	c 09	NASA-CASE-MFS-14114-2	N71-24865*	c 15	NASA-CASE-XMF-05114-3			US-PATENT-CLASS-220-9
		US-PATENT-APPL-SN-854815			US-PATENT-APPL-SN-837378			US-PATENT-CLASS-52-249
		US-PATENT-CLASS-165-105			US-PATENT-CLASS-72-56			US-PATENT-CLASS-52-404
		US-PATENT-CLASS-165-107			US-PATENT-3,540,250			US-PATENT-CLASS-62-45
		US-PATENT-CLASS-165-138	N71-24868*	c 23	NASA-CASE-ERC-10001			US-PATENT-3,540,615
		US-PATENT-CLASS-310-4			US-PATENT-APPL-SN-712099	N71-25353*	c 33	NASA-CASE-MFS-20355
		US-PATENT-3,537,515			US-PATENT-CLASS-350-310			US-PATENT-APPL-SN-845974
N71-24808*	c 09	NASA-CASE-XNP-08880			US-PATENT-3,540,802			US-PATENT-CLASS-165-104
		US-PATENT-APPL-SN-605094	N71-24875*	c 15	NASA-CASE-XLA-06199			US-PATENT-CLASS-165-105
		US-PATENT-CLASS-333-98			US-PATENT-APPL-SN-702911			US-PATENT-CLASS-165-133
		US-PATENT-3,416,106			US-PATENT-CLASS-148-6.11			US-PATENT-CLASS-219-378
N71-24809*	c 14	NASA-CASE-XNP-08961			US-PATENT-3,540,942			US-PATENT-CLASS-219-530
		US-PATENT-APPL-SN-661170	N71-24876*	c 33	NASA-CASE-XNP-05524			US-PATENT-CLASS-244-1
		US-PATENT-CLASS-250-84			US-PATENT-APPL-SN-250567			US-PATENT-3,548,930
		US-PATENT-3,487,216			US-PATENT-CLASS-165-2	N71-25360*	c 32	NASA-CASE-XLA-08530
N71-24813*	c 31	NASA-CASE-XAC-06029-1			US-PATENT-3,270,802			US-PATENT-APPL-SN-808577
		US-PATENT-APPL-SN-588651	N71-24890*	c 08	NASA-CASE-XKS-06167			US-PATENT-CLASS-73-90
		US-PATENT-CLASS-343-100			US-PATENT-APPL-SN-649076			US-PATENT-3,546,931
		US-PATENT-3,540,048			US-PATENT-CLASS-235-155	N71-25434*	c 31	NASA-CASE-MSC-13047-1
N71-24828*	c 16	NASA-CASE-XAC-10770-1			US-PATENT-3,535,497			US-PATENT-APPL-SN-850586
		US-PATENT-APPL-SN-690997	N71-24891*	c 08	NASA-CASE-XNP-09759			US-PATENT-CLASS-244-1
		US-PATENT-CLASS-356-28			US-PATENT-APPL-SN-606462			US-PATENT-CLASS-244-113
		US-PATENT-3,547,540			US-PATENT-CLASS-235-92			US-PATENT-CLASS-244-138
N71-24830*	c 17	NASA-CASE-XNP-04148			US-PATENT-3,541,312			US-PATENT-3,547,376
		US-PATENT-APPL-SN-536210	N71-24892*	c 09	NASA-CASE-NPO-10716	N71-25490*	c 26	NASA-CASE-ERC-10088
		US-PATENT-CLASS-204-38			US-PATENT-APPL-SN-851394			US-PATENT-APPL-SN-760927
		US-PATENT-3,472,742			US-PATENT-CLASS-307-104			US-PATENT-CLASS-73-141
N71-24831*	c 16	NASA-CASE-NPO-10548			US-PATENT-CLASS-317-123			US-PATENT-3,537,305
		US-PATENT-APPL-SN-775072			US-PATENT-CLASS-317-148.5	N71-25555*	c 24	NASA-CASE-XNP-09469
		US-PATENT-CLASS-330-4			US-PATENT-3,549,955			US-PATENT-APPL-SN-645573
		US-PATENT-3,486,123	N71-24893*	c 09	NASA-CASE-ERC-10125			US-PATENT-CLASS-204-168
N71-24832*	c 16	NASA-CASE-ERC-10178			US-PATENT-APPL-SN-773029			US-PATENT-3,540,989
		US-PATENT-APPL-SN-800973			US-PATENT-CLASS-323-56	N71-25865*	c 10	NASA-CASE-KSC-10002
		US-PATENT-CLASS-331-94.5			US-PATENT-3,541,428			US-PATENT-APPL-SN-782956
		US-PATENT-3,550,034	N71-24895*	c 15	NASA-CASE-XLA-07473			US-PATENT-CLASS-178-69.5
N71-24833*	c 15	NASA-CASE-XMF-03793			US-PATENT-APPL-SN-839935			US-PATENT-3,567,861
		US-PATENT-APPL-SN-453225			US-PATENT-CLASS-318-265	N71-25866*	c 09	NASA-CASE-ARC-10003-1
		US-PATENT-CLASS-72-56			US-PATENT-3,546,552			US-PATENT-APPL-SN-717822
		US-PATENT-3,360,972	N71-24896*	c 15	NASA-CASE-ERC-10034			US-PATENT-CLASS-178-66
N71-24834*	c 15	NASA-CASE-XNP-05634			US-PATENT-APPL-SN-763706			US-PATENT-CLASS-179-100.2
		US-PATENT-APPL-SN-605096			US-PATENT-CLASS-250-43.5			US-PATENT-3,549,799
		US-PATENT-CLASS-73-95			US-PATENT-3,549,882	N71-25881*	c 18	NASA-CASE-XGS-05180
		US-PATENT-3,460,379	N71-24897*	c 15	NASA-CASE-XLA-03538			US-PATENT-APPL-SN-721607
N71-24835*	c 15	NASA-CASE-NPO-10123			US-PATENT-APPL-SN-749149			US-PATENT-CLASS-260-37
		US-PATENT-APPL-SN-731388			US-PATENT-CLASS-294-83			US-PATENT-3,567,677
		US-PATENT-CLASS-128-272			US-PATENT-3,508,779	N71-25882*	c 10	NASA-CASE-GSC-10022-1
		US-PATENT-CLASS-128-275			NASA-CASE-MFS-20395			US-PATENT-APPL-SN-785546
		US-PATENT-3,540,449	N71-24903*	c 15	US-PATENT-APPL-SN-830715			US-PATENT-CLASS-331-113
N71-24836*	c 15	NASA-CASE-XLE-08917-2			US-PATENT-CLASS-285-314			US-PATENT-3,559,096
		US-PATENT-APPL-SN-852131			US-PATENT-CLASS-285-317	N71-25892*	c 14	NASA-CASE-XLA-04555-1
		US-PATENT-CLASS-72-60			US-PATENT-CLASS-285-38			US-PATENT-APPL-SN-594584
		US-PATENT-3,541,825			US-PATENT-CLASS-285-406			US-PATENT-CLASS-148-13
N71-24840*	c 07	NASA-CASE-NPO-10649			US-PATENT-3,545,792			US-PATENT-3,468,727
		US-PATENT-APPL-SN-795182	N71-24904*	c 09	NASA-CASE-MFS-20385	N71-25899*	c 10	NASA-CASE-LEW-10345-1
		US-PATENT-CLASS-325-113			US-PATENT-APPL-SN-853716			US-PATENT-APPL-SN-805298
		US-PATENT-3,541,450			US-PATENT-CLASS-310-10			US-PATENT-CLASS-137-81.5
N71-24841*	c 09	NASA-CASE-XNP-09771			US-PATENT-3,541,361			US-PATENT-CLASS-235-201

ACCESSION NUMBER INDEX

N71-26577

N71-25900*	c 10	US-PATENT-3,568,702 NASA-CASE-ERC-10032 US-PATENT-APPL-SN-757857 US-PATENT-CLASS-333-30 US-PATENT-CLASS-333-72 US-PATENT-3,568,103	N71-26136*	c 14	US-PATENT-3,564,401 NASA-CASE-XLA-01782 US-PATENT-APPL-SN-576792 US-PATENT-CLASS-73-15.6 US-PATENT-3,472,060	N71-26293*	c 05	US-PATENT-APPL-SN-719870 US-PATENT-CLASS-325-67 US-PATENT-3,553,586 NASA-CASE-XFR-07658-1 US-PATENT-APPL-SN-586324 US-PATENT-CLASS-128-2.06 US-PATENT-3,426,746
N71-25901*	c 14	NASA-CASE-XLA-02810 US-PATENT-APPL-SN-764252 US-PATENT-CLASS-250-43.5 US-PATENT-CLASS-250-83.3 US-PATENT-CLASS-340-233 US-PATENT-CLASS-340-285 US-PATENT-3,569,710	N71-26137*	c 14	NASA-CASE-LAR-10305 US-PATENT-APPL-SN-811037 US-PATENT-CLASS-324-0.5 US-PATENT-CLASS-324-58.5 US-PATENT-3,562,631	N71-26294*	c 15	NASA-CASE-XNP-02862-1 US-PATENT-APPL-SN-556830 US-PATENT-CLASS-277-13 US-PATENT-3,468,548
N71-25903*	c 17	NASA-CASE-XLA-08966-1 US-PATENT-APPL-SN-570678 US-PATENT-CLASS-204-33 US-PATENT-3,468,765	N71-26142*	c 10	NASA-CASE-NPO-10302 US-PATENT-APPL-SN-848811 US-PATENT-CLASS-343-768 US-PATENT-3,553,704	N71-26312*	c 15	NASA-CASE-XNP-01263-2 US-PATENT-APPL-SN-718279 US-PATENT-CLASS-287-189.365 US-PATENT-3,481,638
N71-25914*	c 16	NASA-CASE-XLA-03410 US-PATENT-APPL-SN-512561 US-PATENT-CLASS-250-199 US-PATENT-3,469,087	N71-26145*	c 15	NASA-CASE-FRC-10005 US-PATENT-APPL-SN-756266 US-PATENT-CLASS-33-189 US-PATENT-3,562,919	N71-26326*	c 10	NASA-CASE-NPO-10143 US-PATENT-APPL-SN-692331 US-PATENT-CLASS-58-24 US-PATENT-3,472,019
N71-25917*	c 10	NASA-CASE-NPO-10595 US-PATENT-APPL-SN-771760 US-PATENT-CLASS-340-347 US-PATENT-3,569,956	N71-26148*	c 15	NASA-CASE-XMF-05114-2 US-PATENT-APPL-SN-837377 US-PATENT-CLASS-72-56 US-PATENT-3,555,867	N71-26331*	c 10	NASA-CASE-XNP-10854 US-PATENT-APPL-SN-668248 US-PATENT-CLASS-330-31 US-PATENT-3,482,179
N71-25929*	c 06	NASA-CASE-NPO-10596 US-PATENT-APPL-SN-756381 US-PATENT-CLASS-260-2.5 US-PATENT-3,557,027	N71-26153*	c 18	NASA-CASE-XLE-03940 US-PATENT-APPL-SN-539255 US-PATENT-CLASS-148-126 US-PATENT-3,472,709	N71-26333*	c 05	NASA-CASE-XMS-09652-1 US-PATENT-APPL-SN-618969 US-PATENT-CLASS-2-6 US-PATENT-3,473,165
N71-25950*	c 10	NASA-CASE-XGS-06226 US-PATENT-APPL-SN-676387 US-PATENT-CLASS-331-113 US-PATENT-3,466,570	N71-26154*	c 16	NASA-CASE-ERC-10020 US-PATENT-APPL-SN-709399 US-PATENT-CLASS-350-3.5 US-PATENT-3,540,790	N71-26334*	c 10	NASA-CASE-XLA-02619 US-PATENT-APPL-SN-796691 US-PATENT-CLASS-317-DIG.3 US-PATENT-CLASS-317-153 US-PATENT-CLASS-340-235 US-PATENT-3,575,641
N71-25975*	c 15	NASA-CASE-XMS-10660-1 US-PATENT-APPL-SN-797056 US-PATENT-CLASS-24-205.17 US-PATENT-3,469,289	N71-26155*	c 18	NASA-CASE-LAR-10373-1 US-PATENT-APPL-SN-761007 US-PATENT-CLASS-260-2.5 US-PATENT-3,481,887	N71-26339*	c 10	NASA-CASE-NPO-10185 US-PATENT-APPL-SN-723805 US-PATENT-CLASS-73-432 US-PATENT-3,472,080
N71-25999*	c 09	NASA-CASE-XGS-05290 US-PATENT-APPL-SN-754019 US-PATENT-CLASS-310-168 US-PATENT-CLASS-310-254 US-PATENT-CLASS-318-138 US-PATENT-CLASS-318-254 US-PATENT-3,569,804	N71-26161*	c 14	NASA-CASE-XLA-08254 US-PATENT-APPL-SN-867843 US-PATENT-CLASS-73-12 US-PATENT-CLASS-73-79 US-PATENT-3,576,127	N71-26346*	c 15	NASA-CASE-XLE-05641-1 US-PATENT-APPL-SN-605091 US-PATENT-CLASS-72-61 US-PATENT-3,461,700
N71-26000*	c 09	NASA-CASE-XNP-08567 US-PATENT-APPL-SN-640783 US-PATENT-CLASS-307-88 US-PATENT-3,466,459	N71-26162*	c 15	NASA-CASE-MSC-15474-1 US-PATENT-APPL-SN-878731 US-PATENT-CLASS-24-263 US-PATENT-3,564,564	N71-26374*	c 10	NASA-CASE-GSC-11367 US-PATENT-APPL-SN-675238 US-PATENT-CLASS-331-18 US-PATENT-3,484,712
N71-26002*	c 09	NASA-CASE-XMS-04213-1 US-PATENT-APPL-SN-607484 US-PATENT-CLASS-128-2.1 US-PATENT-3,468,303	N71-26173*	c 28	NASA-CASE-LEW-10689-1 US-PATENT-APPL-SN-830978 US-PATENT-CLASS-60-202 US-PATENT-3,552,125	N71-26387*	c 12	NASA-CASE-XLA-05541 US-PATENT-APPL-SN-700986 US-PATENT-CLASS-73-301 US-PATENT-3,473,379
N71-26084*	c 03	NASA-CASE-LEW-11358 US-PATENT-APPL-SN-787906 US-PATENT-CLASS-136-6 US-PATENT-3,554,806	N71-26181*	c 07	NASA-CASE-MSC-12223-1 US-PATENT-APPL-SN-839941 US-PATENT-CLASS-179-1 US-PATENT-3,555,192	N71-26414*	c 10	NASA-CASE-XMF-04958-1 US-PATENT-APPL-SN-448365 US-PATENT-CLASS-321-69 US-PATENT-3,434,037
N71-26085*	c 10	NASA-CASE-GSC-10735-1 US-PATENT-APPL-SN-863963 US-PATENT-CLASS-321-2 US-PATENT-3,559,031	N71-26182*	c 09	NASA-CASE-NPO-10625 US-PATENT-APPL-SN-856415 US-PATENT-CLASS-313-236 US-PATENT-CLASS-313-237 US-PATENT-CLASS-60-23 US-PATENT-3,562,575	N71-26415*	c 10	NASA-CASE-NPO-10003 US-PATENT-APPL-SN-638192 US-PATENT-CLASS-330-13 US-PATENT-3,461,393
N71-26092*	c 09	NASA-CASE-XNP-07477 US-PATENT-APPL-SN-605098 US-PATENT-CLASS-318-258 US-PATENT-3,501,684	N71-26185*	c 15	NASA-CASE-MFS-14711 US-PATENT-APPL-SN-774266 US-PATENT-CLASS-55-75 US-PATENT-3,557,534	N71-26418*	c 10	NASA-CASE-XGS-04224 US-PATENT-APPL-SN-568364 US-PATENT-CLASS-340-174 US-PATENT-3,483,535
N71-26100*	c 18	NASA-CASE-XLA-04251 US-PATENT-APPL-SN-657742 US-PATENT-CLASS-117-104 US-PATENT-3,553,002	N71-26189*	c 15	NASA-CASE-XLE-09527-2 US-PATENT-APPL-SN-840870 US-PATENT-CLASS-308-187 US-PATENT-3,561,828	N71-26434*	c 10	NASA-CASE-XNP-01466 US-PATENT-APPL-SN-487940 US-PATENT-CLASS-340-174 US-PATENT-3,461,437
N71-26101*	c 07	NASA-CASE-NPO-10231 US-PATENT-APPL-SN-701767 US-PATENT-CLASS-343-786 US-PATENT-3,534,376	N71-26199*	c 14	NASA-CASE-NPO-10691 US-PATENT-APPL-SN-816988 US-PATENT-CLASS-73-61 US-PATENT-3,566,676	N71-26474*	c 14	NASA-CASE-XMF-03844-1 US-PATENT-APPL-SN-601229 US-PATENT-CLASS-95-44 US-PATENT-3,472,140
N71-26102*	c 07	NASA-CASE-XNP-06611 US-PATENT-APPL-SN-593607 US-PATENT-CLASS-178-6.6 US-PATENT-3,474,192	N71-26206*	c 23	NASA-CASE-XGS-08269 US-PATENT-APPL-SN-787393 US-PATENT-CLASS-356-76 US-PATENT-3,554,647	N71-26475*	c 14	NASA-CASE-XNP-09701 US-PATENT-APPL-SN-584015 US-PATENT-CLASS-250-83.3 US-PATENT-3,461,290
N71-26103*	c 10	NASA-CASE-XNP-04623 US-PATENT-APPL-SN-510150 US-PATENT-CLASS-340-146.1 US-PATENT-3,474,413	N71-26243*	c 15	NASA-CASE-MSC-10959 US-PATENT-APPL-SN-725719 US-PATENT-CLASS-188-1 US-PATENT-3,420,338	N71-26531*	c 10	NASA-CASE-GSC-10413 US-PATENT-APPL-SN-789043 US-PATENT-CLASS-317-20 US-PATENT-CLASS-317-33 US-PATENT-3,555,361
N71-26110*	c 02	NASA-CASE-LAR-10249-1 US-PATENT-APPL-SN-835060 US-PATENT-CLASS-244-42 US-PATENT-3,576,301	N71-26244*	c 14	NASA-CASE-XMS-06497 US-PATENT-APPL-SN-617778 US-PATENT-CLASS-324-115 US-PATENT-3,464,012	N71-26537*	c 31	NASA-CASE-GSC-10556-1 NASA-CASE-GSC-10557-1 US-PATENT-APPL-SN-808193 US-PATENT-CLASS-244-1 US-PATENT-CLASS-308-1 US-PATENT-CLASS-74-5.12 US-PATENT-3,554,466
N71-26133*	c 09	NASA-CASE-MFS-20075 US-PATENT-APPL-SN-835059 US-PATENT-CLASS-317-101 US-PATENT-CLASS-339-17 US-PATENT-3,575,638	N71-26266*	c 14	NASA-CASE-XNP-09830 US-PATENT-APPL-SN-632165 US-PATENT-CLASS-324-0.5 US-PATENT-3,474,328	N71-26544*	c 10	NASA-CASE-NPO-10344 US-PATENT-APPL-SN-732921 US-PATENT-CLASS-340-347 US-PATENT-3,566,396
N71-26134*	c 15	NASA-CASE-XKS-07953 US-PATENT-APPL-SN-725405 US-PATENT-CLASS-51-170 US-PATENT-3,553,904	N71-26285*	c 18	NASA-CASE-MSC-12109 US-PATENT-APPL-SN-889376 US-PATENT-CLASS-112-402 US-PATENT-CLASS-2-275 US-PATENT-CLASS-2-181 US-PATENT-3,563,198	N71-26546*	c 12	NASA-CASE-FRC-10022 US-PATENT-APPL-SN-763729 US-PATENT-CLASS-73-194 US-PATENT-3,555,898
N71-26135*	c 14	NASA-CASE-XAC-03740 US-PATENT-APPL-SN-480211 US-PATENT-CLASS-324-43	N71-26291*	c 07	NASA-CASE-HQN-10541-1 US-PATENT-APPL-SN-494739 US-PATENT-CLASS-350-96 US-PATENT-3,556,634	N71-26577*	c 10	NASA-CASE-NPO-10214 US-PATENT-APPL-SN-704299 US-PATENT-CLASS-325-41
			N71-26292*	c 07	NASA-CASE-XKS-10543			

N71-26579*	c 07	US-PATENT-3,566,268	N71-26787*	c 09	US-PATENT-APPL-SN-804172	N71-27094*	c 28	NASA-CASE-GSC-10710-1		
		NASA-CASE-XMS-06740-1			US-PATENT-CLASS-313-63			US-PATENT-APPL-SN-828909		
		US-PATENT-APPL-SN-554277			US-PATENT-CLASS-315-111			US-PATENT-CLASS-73-117.4		
		US-PATENT-CLASS-178-6			US-PATENT-CLASS-60-202			US-PATENT-3,572,104		
N71-26611*	c 15	US-PATENT-3,470,313	N71-26788*	c 14	US-PATENT-3,576,107	N71-27095*	c 28	NASA-CASE-MFS-20325		
		NASA-CASE-MSC-11817-1			US-PATENT-APPL-SN-752729			US-PATENT-APPL-SN-840176		
		US-PATENT-APPL-SN-7668			US-PATENT-CLASS-240-11.2			US-PATENT-CLASS-244-1		
		US-PATENT-CLASS-165-44			US-PATENT-CLASS-240-11.4			US-PATENT-3,572,610		
N71-26626*	c 10	US-PATENT-CLASS-165-86	N71-27126*	c 10	US-PATENT-CLASS-240-51.11	N71-27126*	c 10	NASA-CASE-LEW-10233		
		US-PATENT-CLASS-188-88			US-PATENT-CLASS-313-22			US-PATENT-APPL-SN-750787		
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-313-22			US-PATENT-CLASS-307-253		
		US-PATENT-CLASS-244-57			US-PATENT-3,564,234			US-PATENT-CLASS-307-300		
N71-26627*	c 14	US-PATENT-3,563,307	N71-27001*	c 09	NASA-CASE-MFS-20240	N71-27135*	c 15	US-PATENT-3,566,158		
		NASA-CASE-GSC-10891-1			US-PATENT-APPL-SN-825259			NASA-CASE-HQN-10541-2		
		US-PATENT-APPL-SN-568620			US-PATENT-CLASS-356-203			US-PATENT-APPL-SN-822088		
		US-PATENT-CLASS-307-53			US-PATENT-3,563,668			US-PATENT-CLASS-219-121		
N71-26635*	c 15	US-PATENT-3,480,789	N71-27005*	c 14	NASA-CASE-XGS-11177	N71-27136*	c 10	US-PATENT-CLASS-331-94.5		
		US-PATENT-APPL-SN-762956			US-PATENT-APPL-SN-828921			US-PATENT-CLASS-317-33		
		US-PATENT-CLASS-248-183			US-PATENT-CLASS-317-9			NASA-CASE-GSC-10065-1		
		US-PATENT-CLASS-308-9			US-PATENT-3,571,656			US-PATENT-APPL-SN-808462		
N71-26642*	c 28	US-PATENT-3,559,937	N71-27006*	c 15	NASA-CASE-MFS-20261	N71-27137*	c 10	US-PATENT-CLASS-318-571		
		NASA-CASE-ERC-10022			US-PATENT-APPL-SN-845990			US-PATENT-CLASS-318-653		
		US-PATENT-APPL-SN-874733			US-PATENT-CLASS-1			US-PATENT-3,568,028		
		US-PATENT-CLASS-74-424.8			US-PATENT-CLASS-141-258			NASA-CASE-XNP-06234		
N71-26654*	c 23	US-PATENT-CLASS-74-89.15	N71-27036*	c 11	US-PATENT-CLASS-222-137	N71-27146*	c 15	US-PATENT-APPL-SN-723827		
		US-PATENT-3,576,135			US-PATENT-CLASS-222-49			US-PATENT-CLASS-235-92		
		NASA-CASE-LEW-10106-1			US-PATENT-3,568,885			US-PATENT-CLASS-328-49		
		US-PATENT-APPL-SN-758390			NASA-CASE-LAR-10083-1			US-PATENT-3,567,913		
N71-26672*	c 14	US-PATENT-CLASS-60-202	N71-27016*	c 09	US-PATENT-APPL-SN-837825	N71-27170*	c 18	NASA-CASE-LAR-10193-1		
		US-PATENT-3,552,124			US-PATENT-CLASS-73-147			US-PATENT-APPL-SN-794968		
		NASA-CASE-NPO-10467			US-PATENT-3,572,112			US-PATENT-CLASS-188-1		
		US-PATENT-APPL-SN-798277			NASA-CASE-GSC-11139			US-PATENT-CLASS-188-103		
N71-26673*	c 15	US-PATENT-CLASS-62-514	N71-27036*	c 11	US-PATENT-APPL-SN-756511	N71-27169*	c 15	US-PATENT-3,568,805		
		US-PATENT-3,564,866			US-PATENT-CLASS-307-234			NASA-CASE-MSC-12121-1		
		NASA-CASE-ERC-10033			US-PATENT-CLASS-307-246			US-PATENT-APPL-SN-783374		
		US-PATENT-APPL-SN-801660			US-PATENT-CLASS-307-273			US-PATENT-CLASS-91-390		
N71-26677*	c 15	US-PATENT-CLASS-73-49.3	N71-27053*	c 09	US-PATENT-CLASS-328-120	N71-27183*	c 16	US-PATENT-CLASS-91-461		
		US-PATENT-3,559,460			US-PATENT-CLASS-330-30			US-PATENT-3,563,135		
		NASA-CASE-XAC-09489-1			US-PATENT-3,569,744			NASA-CASE-LAR-10106-1		
		US-PATENT-APPL-SN-694246			NASA-CASE-XNP-09770-3			US-PATENT-APPL-SN-810575		
N71-26678*	c 09	US-PATENT-CLASS-356-154	N71-27056*	c 07	US-PATENT-APPL-SN-863967	N71-27184*	c 15	US-PATENT-CLASS-188-1		
		US-PATENT-3,565,530			US-PATENT-CLASS-74-18.2			US-PATENT-CLASS-310-51		
		NASA-CASE-XGS-04173			US-PATENT-3,574,286			US-PATENT-3,566,993		
		US-PATENT-APPL-SN-658964			NASA-CASE-ERC-10113			NASA-CASE-XMF-02221		
N71-26681*	c 32	US-PATENT-CLASS-350-285	N71-27057*	c 08	US-PATENT-3,574,286	N71-27185*	c 14	US-PATENT-APPL-SN-430192		
		US-PATENT-3,560,081			US-PATENT-APPL-SN-865811			US-PATENT-CLASS-252-301.2		
		NASA-CASE-ERC-10013			US-PATENT-CLASS-323-48			US-PATENT-3,567,651		
		US-PATENT-APPL-SN-802972			US-PATENT-CLASS-323-60			NASA-CASE-HQN-10541-4		
N71-26701*	c 09	US-PATENT-3,562,881	N71-27067*	c 15	US-PATENT-3,571,699	N71-27186*	c 14	US-PATENT-APPL-SN-822090		
		NASA-CASE-LAR-10098			NASA-CASE-MSC-12205-1			US-PATENT-CLASS-250-199		
		US-PATENT-APPL-SN-677475			US-PATENT-APPL-SN-882577			US-PATENT-3,575,602		
		US-PATENT-CLASS-73-71.4			US-PATENT-CLASS-325-16			NASA-CASE-XNP-08124		
N71-26721*	c 15	US-PATENT-CLASS-73-71.4	N71-27068*	c 15	US-PATENT-CLASS-325-23	N71-27210*	c 08	US-PATENT-APPL-SN-697075		
		US-PATENT-3,564,906			US-PATENT-CLASS-325-369			US-PATENT-CLASS-75-63		
		NASA-CASE-NPO-10331			US-PATENT-CLASS-343-100			US-PATENT-3,563,727		
		US-PATENT-APPL-SN-757625			US-PATENT-CLASS-343-117			NASA-CASE-NPO-10556		
N71-26722*	c 23	US-PATENT-CLASS-118-49.5	N71-27084*	c 15	US-PATENT-CLASS-343-176	N71-27214*	c 15	US-PATENT-APPL-SN-796405		
		US-PATENT-CLASS-204-298			US-PATENT-3,568,197			US-PATENT-CLASS-73-71.6		
		US-PATENT-3,556,048			US-PATENT-CLASS-182-10			US-PATENT-3,572,089		
		NASA-CASE-LAR-10121-1			NASA-CASE-XLA-07828			NASA-CASE-XMF-03968		
N71-26726*	c 03	US-PATENT-CLASS-18-6	N71-27088*	c 02	US-PATENT-APPL-SN-770209	N71-27215*	c 14	US-PATENT-APPL-SN-719029		
		US-PATENT-3,562,857			US-PATENT-CLASS-318-20.105			US-PATENT-CLASS-174-110.3		
		NASA-CASE-GSC-10216-1			US-PATENT-CLASS-325-151.11			US-PATENT-CLASS-324-65		
		US-PATENT-APPL-SN-766244			US-PATENT-CLASS-340-347DA			US-PATENT-CLASS-340-227		
N71-26754*	c 06	US-PATENT-CLASS-18-6	N71-27090*	c 14	US-PATENT-3,573,797	N71-27232*	c 09	US-PATENT-CLASS-60-35.6		
		US-PATENT-3,562,857			NASA-CASE-MSC-13276-1			US-PATENT-3,569,828		
		NASA-CASE-GSC-10216-1			US-PATENT-APPL-SN-880272			NASA-CASE-MFS-20068		
		US-PATENT-CLASS-331-94.5			US-PATENT-CLASS-219-505			US-PATENT-APPL-SN-797795		
N71-26772*	c 18	US-PATENT-3,555,455	N71-27091*	c 15	US-PATENT-3,575,585	N71-27210*	c 08	US-PATENT-CLASS-174-28		
		NASA-CASE-XNP-03413			NASA-CASE-XKS-07814			US-PATENT-CLASS-333-95		
		US-PATENT-APPL-SN-640456			US-PATENT-APPL-SN-672384			US-PATENT-CLASS-333-96		
		US-PATENT-CLASS-156-212			US-PATENT-CLASS-182-10			US-PATENT-CLASS-343-884		
N71-26773*	c 17	US-PATENT-3,565,719	N71-27098*	c 02	US-PATENT-CLASS-188-65.5	N71-27214*	c 15	US-PATENT-CLASS-343-884		
		NASA-CASE-XNP-09451			US-PATENT-3,568,795			US-PATENT-3,569,875		
		US-PATENT-APPL-SN-713162			NASA-CASE-NPO-10796			NASA-CASE-GSC-10097-1		
		US-PATENT-CLASS-23-253			US-PATENT-APPL-SN-815760			US-PATENT-APPL-SN-762957		
N71-26777*	c 14	US-PATENT-3,560,161	N71-27099*	c 14	US-PATENT-CLASS-220-46	N71-27215*	c 14	US-PATENT-CLASS-179-100.2		
		NASA-CASE-XMF-07770-2			US-PATENT-3,568,874			US-PATENT-CLASS-29-603		
		US-PATENT-APPL-SN-711903			NASA-CASE-NPO-10755			US-PATENT-CLASS-340-174.1		
		US-PATENT-CLASS-106-296			US-PATENT-APPL-SN-816733			US-PATENT-3,566,045		
N71-26779*	c 28	US-PATENT-3,576,656	N71-27099*	c 14	US-PATENT-CLASS-417-50	N71-27215*	c 14	NASA-CASE-XLA-08911		
		NASA-CASE-XNP-04262-2			US-PATENT-3,567,339			US-PATENT-APPL-SN-777764		
		US-PATENT-APPL-SN-684894			NASA-CASE-XLA-08967			US-PATENT-CLASS-219-229		
		US-PATENT-CLASS-75-66			US-PATENT-APPL-SN-837830			US-PATENT-CLASS-228-53		
N71-26781*	c 28	US-PATENT-3,565,607	N71-27099*	c 14	US-PATENT-CLASS-244-90	N71-27215*	c 14	US-PATENT-3,575,336		
		NASA-CASE-ERC-11020			US-PATENT-3,570,789			NASA-CASE-LAR-10204		
		US-PATENT-APPL-SN-686248			NASA-CASE-ERC-10044-1			US-PATENT-APPL-SN-766245		
		US-PATENT-CLASS-325-363			US-PATENT-APPL-SN-811892			US-PATENT-CLASS-235-92		
N71-26787*	c 09	US-PATENT-3,564,420	N71-27099*	c 14	US-PATENT-CLASS-250-43.5R	N71-27215*	c 14	US-PATENT-CLASS-356-106		
		NASA-CASE-XLA-04126			US-PATENT-CLASS-250-83.6R			US-PATENT-3,572,935		
		US-PATENT-APPL-SN-467820			US-PATENT-CLASS-324-33			NASA-CASE-NPO-10607		
		US-PATENT-CLASS-102-101			US-PATENT-3,575,597			US-PATENT-APPL-SN-799353		
N71-26788*	c 14	US-PATENT-CLASS-264-3	N71-27091*	c 15	US-PATENT-CLASS-13929	N71-27215*	c 14	US-PATENT-CLASS-250-83		
		US-PATENT-CLASS-86-1			US-PATENT-APPL-SN-779847			US-PATENT-CLASS-317-230		
		US-PATENT-CLASS-86-20.2			US-PATENT-CLASS-152-225			US-PATENT-CLASS-317-231		
		US-PATENT-3,570,364			US-PATENT-CLASS-152-250			US-PATENT-CLASS-317-238		
N71-26790*	c 28	NASA-CASE-LEW-10210-1	N71-27091*	c 15	US-PATENT-3,568,748	N71-27215*	c 14	US-PATENT-3,568,013		

ACCESSION NUMBER INDEX

N71-28892

N71-27233*	c 07	NASA-CASE-GSC-10220-1 US-PATENT-APPL-SN-759256 US-PATENT-CLASS-343-777 US-PATENT-CLASS-343-786 US-PATENT-CLASS-343-799 US-PATENT-CLASS-343-840 US-PATENT-CLASS-343-854 US-PATENT-3,569,976	N71-27407*	c 14	NASA-CASE-GSC-10376-1 US-PATENT-APPL-SN-806226 US-PATENT-CLASS-307-126 US-PATENT-CLASS-323-20 US-PATENT-3,566,143	N71-28729*	c 18	NASA-CASE-LEW-10219-1 US-PATENT-APPL-SN-785780 US-PATENT-CLASS-148-126 US-PATENT-3,579,390
N71-27234*	c 05	NASA-CASE-XFR-07172 US-PATENT-APPL-SN-720041 US-PATENT-CLASS-128-2,05 US-PATENT-3,563,232	N71-27432*	c 15	NASA-CASE-NPO-10808 US-PATENT-APPL-SN-808192 US-PATENT-CLASS-60-243 US-PATENT-3,568,447	N71-28739*	c 10	NASA-CASE-XNP-01068 US-PATENT-APPL-SN-375680 US-PATENT-CLASS-307-88.5 US-PATENT-3,271,594
N71-27254*	c 06	NASA-CASE-NPO-10768 US-PATENT-APPL-SN-770398 US-PATENT-CLASS-260-615 US-PATENT-3,574,770	N71-27585*	c 28	NASA-CASE-MFS-20130 US-PATENT-APPL-SN-809822 US-PATENT-CLASS-244-4 US-PATENT-3,570,785	N71-28740*	c 15	NASA-CASE-XLA-09346 US-PATENT-APPL-SN-820964 US-PATENT-CLASS-356-150 US-PATENT-CLASS-356-152 US-PATENT-CLASS-356-153 US-PATENT-CLASS-73-147 US-PATENT-3,583,815
N71-27255*	c 08	NASA-CASE-NPO-12107 US-PATENT-APPL-SN-555189 US-PATENT-CLASS-179-100.2 US-PATENT-CLASS-340-146.1 US-PATENT-CLASS-340-172.5 US-PATENT-3,571,801	N71-27754*	c 15	NASA-CASE-ARC-10131-1 US-PATENT-APPL-SN-808576 US-PATENT-CLASS-60-51 US-PATENT-CLASS-91-361 US-PATENT-CLASS-91-390 US-PATENT-CLASS-91-448 US-PATENT-3,568,572	N71-28741*	c 12	NASA-CASE-XLE-09341 US-PATENT-APPL-SN-780065 US-PATENT-CLASS-137-81.5 US-PATENT-3,583,419
N71-27271*	c 10	NASA-CASE-XLA-03893 US-PATENT-APPL-SN-779024 US-PATENT-CLASS-331-109 US-PATENT-CLASS-331-117 US-PATENT-CLASS-331-177 US-PATENT-CLASS-332-30 US-PATENT-3,569,866	N71-27862*	c 33	NASA-CASE-MFS-14114 US-PATENT-APPL-SN-706013 US-PATENT-CLASS-310-4 US-PATENT-3,535,562	N71-28747*	c 17	NASA-CASE-XNP-08881 US-PATENT-APPL-SN-732922 US-PATENT-CLASS-161-89 US-PATENT-3,579,412
N71-27272*	c 10	NASA-CASE-XLA-08799 US-PATENT-APPL-SN-668242 US-PATENT-CLASS-340-150 US-PATENT-CLASS-340-164 US-PATENT-CLASS-340-166 US-PATENT-CLASS-340-213 US-PATENT-CLASS-340-403 US-PATENT-3,571,800	N71-28421*	c 09	NASA-CASE-NPO-10412 US-PATENT-APPL-SN-768470 US-PATENT-CLASS-310-4 US-PATENT-3,578,992	N71-28759*	c 22	NASA-CASE-LEW-10250-1 US-PATENT-APPL-SN-732455 US-PATENT-CLASS-176-45 US-PATENT-3,574,057
N71-27323*	c 14	NASA-CASE-NPO-10810 US-PATENT-APPL-SN-805405 US-PATENT-CLASS-250-83.3 US-PATENT-CLASS-73-355 US-PATENT-3,566,122	N71-28429*	c 07	NASA-CASE-MSC-13201-1 US-PATENT-APPL-SN-789903 US-PATENT-CLASS-332-29 US-PATENT-CLASS-332-30 US-PATENT-3,579,147	N71-28779*	c 11	NASA-CASE-XNP-00250 US-PATENT-APPL-SN-212497 US-PATENT-CLASS-181-5 US-PATENT-3,260,326
N71-27324*	c 21	NASA-CASE-GSC-10555-1 US-PATENT-APPL-SN-785620 US-PATENT-CLASS-244-1 US-PATENT-3,567,155	N71-28430*	c 07	NASA-CASE-GSC-10668-1 US-PATENT-APPL-SN-743525 US-PATENT-CLASS-307-296 US-PATENT-CLASS-325-185 US-PATENT-CLASS-330-124 US-PATENT-CLASS-330-200 US-PATENT-CLASS-330-40 US-PATENT-3,577,092	N71-28783*	c 10	NASA-CASE-XMS-02182 US-PATENT-APPL-SN-516153 US-PATENT-CLASS-317-100 US-PATENT-3,317,797
N71-27325*	c 14	NASA-CASE-GSC-10441-1 US-PATENT-APPL-SN-782544 US-PATENT-CLASS-324-43 US-PATENT-3,571,700	N71-28465*	c 15	NASA-CASE-ERC-10097 US-PATENT-APPL-SN-797059 US-PATENT-CLASS-308-170 US-PATENT-3,583,777	N71-28807*	c 06	NASA-CASE-XMF-08674 US-PATENT-APPL-SN-617775 US-PATENT-CLASS-260-47 US-PATENT-3,370,039
N71-27332*	c 12	NASA-CASE-NPO-10416 US-PATENT-APPL-SN-754020 US-PATENT-CLASS-137-81.5 US-PATENT-3,570,513	N71-28467*	c 15	NASA-CASE-NPO-10646 US-PATENT-APPL-SN-813488 US-PATENT-CLASS-64-18 US-PATENT-3,574,277	N71-28808*	c 06	NASA-CASE-XNP-04023 US-PATENT-APPL-SN-470902 US-PATENT-CLASS-260-429 US-PATENT-3,396,184
N71-27334*	c 14	NASA-CASE-ERC-10087 US-PATENT-APPL-SN-738315 US-PATENT-CLASS-29-588 US-PATENT-3,566,459	N71-28468*	c 09	NASA-CASE-ARC-10137-1 US-PATENT-APPL-SN-799013 US-PATENT-CLASS-307-265 US-PATENT-CLASS-307-273 US-PATENT-CLASS-307-288 US-PATENT-CLASS-328-207 US-PATENT-3,584,311	N71-28809*	c 07	NASA-CASE-XGS-02290 US-PATENT-APPL-SN-544895 US-PATENT-CLASS-343-771 US-PATENT-3,417,400
N71-27338*	c 10	NASA-CASE-KSC-10020 US-PATENT-APPL-SN-817482 US-PATENT-CLASS-324-103 US-PATENT-CLASS-324-107 US-PATENT-CLASS-324-133 US-PATENT-CLASS-340-248 US-PATENT-3,571,707	N71-28554*	c 16	NASA-CASE-XGS-10518 US-PATENT-APPL-SN-764470 US-PATENT-CLASS-335-216 US-PATENT-3,541,486	N71-28810*	c 09	NASA-CASE-XNP-03916 US-PATENT-APPL-SN-535304 US-PATENT-CLASS-331-113 US-PATENT-3,325,749
N71-27341*	c 07	NASA-CASE-NPO-10343 US-PATENT-APPL-SN-750786 US-PATENT-CLASS-178-7.1 US-PATENT-CLASS-178-7.3 US-PATENT-3,566,027	N71-28579*	c 03	NASA-CASE-LEW-11359 US-PATENT-APPL-SN-787911 US-PATENT-CLASS-136-83 US-PATENT-3,573,986	N71-28849*	c 28	NASA-CASE-XMS-04826 US-PATENT-APPL-SN-521755 US-PATENT-CLASS-60-258 US-PATENT-3,318,096
N71-27363*	c 06	NASA-CASE-HQN-10364 US-PATENT-APPL-SN-713616 US-PATENT-CLASS-260-2 US-PATENT-3,563,918	N71-28582*	c 15	NASA-CASE-LEW-10278-1 US-PATENT-APPL-SN-760928 US-PATENT-CLASS-117-224 US-PATENT-3,573,977	N71-28850*	c 28	NASA-CASE-XNP-01954 US-PATENT-APPL-SN-372730 US-PATENT-CLASS-313-230 US-PATENT-3,328,624
N71-27364*	c 09	NASA-CASE-ERC-10065 US-PATENT-APPL-SN-777818 US-PATENT-CLASS-321-61 US-PATENT-CLASS-321-64 US-PATENT-CLASS-322-32 US-PATENT-3,571,693	N71-28579*	c 03	NASA-CASE-LEW-11359 US-PATENT-APPL-SN-787911 US-PATENT-CLASS-136-83 US-PATENT-3,573,986	N71-28851*	c 31	NASA-CASE-XMS-06162 US-PATENT-APPL-SN-610724 US-PATENT-CLASS-244-138 US-PATENT-3,330,510
N71-27365*	c 10	NASA-CASE-NPO-10251 US-PATENT-APPL-SN-774265 US-PATENT-CLASS-35-19 US-PATENT-3,570,143	N71-28618*	c 09	NASA-CASE-ERC-10098 US-PATENT-APPL-SN-779169 US-PATENT-CLASS-178-5.2R US-PATENT-CLASS-178-54CF US-PATENT-CLASS-178-54PE US-PATENT-3,582,960	N71-28852*	c 33	NASA-CASE-XNP-01310 US-PATENT-APPL-SN-379771 US-PATENT-CLASS-60-266 US-PATENT-3,279,193
N71-27366*	c 10	NASA-CASE-GSC-10114-1 US-PATENT-APPL-SN-796370 US-PATENT-CLASS-317-33 US-PATENT-CLASS-321-12 US-PATENT-3,571,662	N71-28619*	c 05	NASA-CASE-ARC-10153 US-PATENT-APPL-SN-783377 US-PATENT-CLASS-104-1 US-PATENT-CLASS-104-139 US-PATENT-CLASS-119-96 US-PATENT-CLASS-238-1 US-PATENT-CLASS-248-361 US-PATENT-CLASS-272-70 US-PATENT-CLASS-35-29 US-PATENT-3,583,322	N71-28859*	c 10	NASA-CASE-XNP-01107 US-PATENT-APPL-SN-384010 US-PATENT-CLASS-330-51 US-PATENT-3,389,346
N71-27372*	c 15	NASA-CASE-NPO-10070 US-PATENT-APPL-SN-780064 US-PATENT-CLASS-23-259 US-PATENT-3,565,584	N71-28620*	c 06	NASA-CASE-NPO-10701 US-PATENT-APPL-SN-763355 US-PATENT-CLASS-260-47 US-PATENT-3,576,786	N71-28860*	c 10	NASA-CASE-MSC-13492-1 US-PATENT-APPL-SN-53156 US-PATENT-CLASS-307-215 US-PATENT-CLASS-307-265 US-PATENT-CLASS-307-273 US-PATENT-CLASS-328-207 US-PATENT-CLASS-328-92 US-PATENT-3,577,014
N71-27397*	c 18	NASA-CASE-XNP-02500 US-PATENT-APPL-SN-508169 US-PATENT-CLASS-324-58.5	N71-28629*	c 11	NASA-CASE-KSC-10198 US-PATENT-APPL-SN-845971 US-PATENT-CLASS-73-15 US-PATENT-CLASS-73-432 US-PATENT-3,578,756	N71-28863*	c 14	NASA-CASE-ERC-10014 US-PATENT-APPL-SN-815367 US-PATENT-CLASS-250-41.9 US-PATENT-CLASS-250-49.5 US-PATENT-3,567,927
			N71-28691*	c 09	NASA-CASE-MFS-13687	N71-28886*	c 09	NASA-CASE-MFS-14610 US-PATENT-APPL-SN-885571 US-PATENT-CLASS-318-317 US-PATENT-CLASS-318-331 US-PATENT-CLASS-318-345 US-PATENT-CLASS-318-504 US-PATENT-3,573,583
						N71-28892*	c 33	NASA-CASE-XMF-05046 US-PATENT-APPL-SN-559350

		US-PATENT-CLASS-62-45	N71-28994*	c 14	NASA-CASE-XER-11203	N71-29129*	c 03	NASA-CASE-XGS-01674
		US-PATENT-3,365,897			US-PATENT-APPL-SN-815366			US-PATENT-APPL-SN-248985
N71-28900*	c 07	NASA-CASE-XNP-02389			US-PATENT-CLASS-250-218			US-PATENT-CLASS-320-13
		US-PATENT-APPL-SN-516162			US-PATENT-CLASS-356-103			US-PATENT-3,118,100
		US-PATENT-CLASS-343-100			US-PATENT-3,578,867	N71-29131*	c 16	NASA-CASE-ERC-10151
		US-PATENT-3,331,071			NASA-CASE-MS-11277			US-PATENT-APPL-SN-853856
N71-28903*	c 33	NASA-CASE-XLA-01745	N71-29008*	c 09	US-PATENT-APPL-SN-771759			US-PATENT-CLASS-350-3.5
		US-PATENT-APPL-SN-538907			US-PATENT-CLASS-317-155.5			US-PATENT-3,578,838
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-317-33	N71-29132*	c 15	NASA-CASE-NPO-10431
		US-PATENT-3,409,247			US-PATENT-CLASS-317-54			US-PATENT-APPL-SN-865329
N71-28915*	c 28	NASA-CASE-LEW-10286-1			US-PATENT-CLASS-317-60			US-PATENT-CLASS-73-49.8
		US-PATENT-APPL-SN-839994			US-PATENT-3,579,041			US-PATENT-3,583,239
		US-PATENT-CLASS-431-352	N71-29018*	c 15	NASA-CASE-XLA-08916	N71-29133*	c 15	NASA-CASE-MFS-20453
		US-PATENT-CLASS-60-39.36			US-PATENT-APPL-SN-777765			US-PATENT-APPL-SN-885594
		US-PATENT-CLASS-60-39.65			US-PATENT-CLASS-29-421			US-PATENT-CLASS-29-278R
		US-PATENT-3,581,492			US-PATENT-3,583,058			US-PATENT-CLASS-294-15
N71-28925*	c 08	NASA-CASE-XNP-01012	N71-29032*	c 15	NASA-CASE-XMF-05999			US-PATENT-CLASS-339-17R
		US-PATENT-APPL-SN-369338			US-PATENT-APPL-SN-752946			US-PATENT-CLASS-81-3R
		US-PATENT-CLASS-340-174			US-PATENT-CLASS-117-212			US-PATENT-3,583,744
		US-PATENT-3,394,359			US-PATENT-3,576,669	N71-29134*	c 14	NASA-CASE-MFS-11204
N71-28926*	c 09	NASA-CASE-XMS-03542	N71-29033*	c 08	NASA-CASE-GSC-10554-1			US-PATENT-APPL-SN-845991
		US-PATENT-APPL-SN-482952			US-PATENT-APPL-SN-828984			US-PATENT-CLASS-73-1R
		US-PATENT-CLASS-307-263			US-PATENT-CLASS-235-150.1			US-PATENT-CLASS-73-304C
		US-PATENT-3,364,366			US-PATENT-CLASS-235-150.2			US-PATENT-3,578,755
N71-28928*	c 28	NASA-CASE-XNP-00816			US-PATENT-CLASS-235-150.27	N71-29135*	c 10	NASA-CASE-GSC-10564
		US-PATENT-APPL-SN-235588			US-PATENT-CLASS-235-151.1			US-PATENT-APPL-SN-292596
		US-PATENT-CLASS-253-77			US-PATENT-3,578,957			US-PATENT-CLASS-340-174
		US-PATENT-3,202,398	N71-29034*	c 08	NASA-CASE-NPO-11088			US-PATENT-3,348,218
N71-28929*	c 27	NASA-CASE-XNP-00650			US-PATENT-APPL-SN-887701	N71-29136*	c 15	NASA-CASE-XLA-00013
		US-PATENT-APPL-SN-271823			US-PATENT-CLASS-307-207			US-PATENT-APPL-SN-579121
		US-PATENT-CLASS-60-39.48			US-PATENT-CLASS-307-222			US-PATENT-CLASS-308-177
		US-PATENT-3,170,295			US-PATENT-CLASS-328-167			US-PATENT-2,903,307
N71-28933*	c 14	NASA-CASE-XLA-08913			US-PATENT-CLASS-328-44	N71-29137*	c 17	NASA-CASE-XNP-04339
		US-PATENT-APPL-SN-865109			US-PATENT-3,579,122			US-PATENT-APPL-SN-451596
		US-PATENT-CLASS-204-263	N71-29035*	c 09	NASA-CASE-LEW-10155-1			US-PATENT-CLASS-264-111
		US-PATENT-3,574,084			US-PATENT-APPL-SN-889387			US-PATENT-3,413,393
N71-28935*	c 14	NASA-CASE-LAR-10686			US-PATENT-CLASS-337-114	N71-29138*	c 08	NASA-CASE-ERC-10041
		US-PATENT-APPL-SN-280362			US-PATENT-CLASS-337-121			US-PATENT-APPL-SN-889478
		US-PATENT-CLASS-226-58			US-PATENT-3,579,168			US-PATENT-CLASS-307-234
		US-PATENT-3,298,582	N71-29040*	c 18	NASA-CASE-XLE-10910			US-PATENT-CLASS-307-265
N71-28936*	c 15	NASA-CASE-XMS-10993			US-PATENT-APPL-SN-751061			US-PATENT-CLASS-324-106
		US-PATENT-APPL-SN-660573			US-PATENT-CLASS-148-6			US-PATENT-CLASS-328-58
		US-PATENT-CLASS-244-1			US-PATENT-3,573,996			US-PATENT-CLASS-332-10
		US-PATENT-3,389,877	N71-29041*	c 14	NASA-CASE-XLA-10402			US-PATENT-CLASS-332-9R
N71-28937*	c 15	NASA-CASE-XNP-01855			US-PATENT-APPL-SN-762935			US-PATENT-3,579,146
		US-PATENT-APPL-SN-408435			US-PATENT-CLASS-356-76	N71-29139*	c 09	NASA-CASE-XLA-07788
		US-PATENT-CLASS-285-45			US-PATENT-3,574,462			US-PATENT-APPL-SN-874732
		US-PATENT-3,219,365	N71-29044*	c 03	NASA-CASE-XMS-02063			US-PATENT-CLASS-307-215
N71-28951*	c 15	NASA-CASE-XNP-02278			US-PATENT-APPL-SN-422096			US-PATENT-CLASS-307-247
		US-PATENT-APPL-SN-11853			US-PATENT-CLASS-136-86			US-PATENT-CLASS-307-265
		US-PATENT-CLASS-60-35.55			US-PATENT-3,382,105			US-PATENT-CLASS-307-273
		US-PATENT-3,132,479	N71-29046*	c 33	NASA-CASE-XHQ-03673			US-PATENT-CLASS-307-294
N71-28952*	c 15	NASA-CASE-XAC-00001			US-PATENT-APPL-SN-559055			US-PATENT-CLASS-328-207
		US-PATENT-APPL-SN-612568			US-PATENT-CLASS-165-86			US-PATENT-3,578,988
		US-PATENT-CLASS-318-31			US-PATENT-3,347,309	N71-29151*	c 33	NASA-CASE-XLE-00035
		US-PATENT-2,837,706	N71-29049*	c 23	NASA-CASE-XNP-06503			US-PATENT-APPL-SN-575291
N71-28958*	c 14	NASA-CASE-XNP-02792			US-PATENT-APPL-SN-370989			US-PATENT-CLASS-204-37
		US-PATENT-APPL-SN-262596			US-PATENT-CLASS-335-216			US-PATENT-2,926,123
		US-PATENT-CLASS-219-413			US-PATENT-3,273,094	N71-29152*	c 33	NASA-CASE-XLE-00027
		US-PATENT-3,197,616	N71-29050*	c 31	NASA-CASE-HQN-00936			US-PATENT-APPL-SN-529594
N71-28959*	c 15	NASA-CASE-XNP-01848			US-PATENT-APPL-SN-862921			US-PATENT-CLASS-253-39.1
		US-PATENT-APPL-SN-359532			US-PATENT-CLASS-244-1			US-PATENT-2,956,772
		US-PATENT-CLASS-64-27			US-PATENT-3,396,920	N71-29153*	c 28	NASA-CASE-MFS-20831
		US-PATENT-3,236,066	N71-29051*	c 33	NASA-CASE-XMF-04208			US-PATENT-APPL-SN-238421
N71-28960*	c 10	NASA-CASE-XNP-00745			US-PATENT-APPL-SN-428887			US-PATENT-CLASS-60-35.54
		US-PATENT-APPL-SN-314570			US-PATENT-CLASS-73-190			US-PATENT-3,212,259
		US-PATENT-CLASS-328-67			US-PATENT-3,372,588	N71-29154*	c 28	NASA-CASE-XLE-00155
		US-PATENT-3,252,100	N71-29052*	c 33	NASA-CASE-MS-12389			US-PATENT-APPL-SN-348600
N71-28965* #	c 07	NASA-CASE-GSC-10949-1			US-PATENT-APPL-SN-229286			US-PATENT-CLASS-253-77
		US-PATENT-APPL-SN-94369			US-PATENT-CLASS-165-47			US-PATENT-2,997,274
N71-28979*	c 07	NASA-CASE-HQN-00937			US-PATENT-3,212,564	N71-29155*	c 27	NASA-CASE-MS-12390
		US-PATENT-APPL-SN-343760	N71-29053*	c 33	NASA-CASE-HQN-00938			US-PATENT-APPL-SN-231520
		US-PATENT-CLASS-343-823			US-PATENT-APPL-SN-300957			US-PATENT-CLASS-222-61
		US-PATENT-3,299,431			US-PATENT-CLASS-60-267			US-PATENT-3,286,882
N71-28980*	c 07	NASA-CASE-XLA-10772			US-PATENT-3,298,175	N71-29156*	c 26	NASA-CASE-XNP-01961
		US-PATENT-APPL-SN-887700	N71-29065*	c 07	NASA-CASE-ERC-10011			US-PATENT-APPL-SN-442835
		US-PATENT-CLASS-343-708			US-PATENT-APPL-SN-802818			US-PATENT-CLASS-148-174
		US-PATENT-CLASS-343-784			US-PATENT-CLASS-333-81			US-PATENT-3,397,094
		US-PATENT-CLASS-343-872			US-PATENT-CLASS-350-1	N71-29184*	c 25	NASA-CASE-XLA-00327
		US-PATENT-3,579,242			US-PATENT-CLASS-350-286			US-PATENT-APPL-SN-199199
N71-28991*	c 14	NASA-CASE-XLA-06713			US-PATENT-3,574,438			US-PATENT-CLASS-315-111
		US-PATENT-APPL-SN-863913	N71-29123*	c 23	NASA-CASE-XNP-08907			US-PATENT-3,238,413
		US-PATENT-CLASS-324-5			US-PATENT-APPL-SN-824042	N71-30026*	c 14	NASA-CASE-MFS-20096
		US-PATENT-CLASS-324-73			US-PATENT-CLASS-350-102			US-PATENT-APPL-SN-435433
		US-PATENT-CLASS-340-347AD			US-PATENT-CLASS-350-288			US-PATENT-CLASS-73-432
		US-PATENT-3,579,103			US-PATENT-CLASS-350-310			US-PATENT-3,396,584
N71-28992*	c 14	NASA-CASE-ERC-10150			US-PATENT-3,574,448	N71-30027*	c 23	NASA-CASE-GSC-10700
		US-PATENT-APPL-SN-822519	N71-29125*	c 23	NASA-CASE-NPO-11087			US-PATENT-APPL-SN-311387
		US-PATENT-CLASS-250-41.95			US-PATENT-CLASS-331-94.5			US-PATENT-CLASS-350-2
		US-PATENT-CLASS-73-40.7			US-PATENT-CLASS-356-153			US-PATENT-3,394,975
		US-PATENT-3,578,758			US-PATENT-3,574,467	N71-30028*	c 15	NASA-CASE-MFS-20830
N71-28993*	c 14	NASA-CASE-MFS-20044			US-PATENT-XAC-00048			US-PATENT-APPL-SN-286620
		US-PATENT-APPL-SN-838630	N71-29128*	c 02	NASA-CASE-XAC-00048			US-PATENT-3,262,395
		US-PATENT-CLASS-250-219			US-PATENT-APPL-SN-765264	N71-30265*	c 14	NASA-CASE-HQN-10780
		US-PATENT-CLASS-356-209			US-PATENT-CLASS-121-38			US-PATENT-APPL-SN-247136
		US-PATENT-3,574,470			US-PATENT-2,898,689			US-PATENT-CLASS-73-497

N71-30292*	c 23	US-PATENT-3,270,565 NASA-CASE-HQN-10781 US-PATENT-APPL-SN-86018 US-PATENT-3,239,660	N71-34044* #	c 03	US-PATENT-CLASS-329-145 US-PATENT-3,588,705 NASA-CASE-NPO-11190 US-PATENT-APPL-SN-115944	N72-11365*	c 14	US-PATENT-CLASS-73-95 US-PATENT-3,592,545 NASA-CASE-MFS-20485 US-PATENT-APPL-SN-22320 US-PATENT-CLASS-250-43.5FC US-PATENT-CLASS-73-194F US-PATENT-3,599,489
N71-33108*	c 07	NASA-CASE-KSC-10164 US-PATENT-APPL-SN-782955 US-PATENT-CLASS-179-1R US-PATENT-CLASS-179-1VC US-PATENT-3,588,359	N71-34212* #	c 09	NASA-CASE-HQN-10683 US-PATENT-APPL-SN-146217	N72-11385*	c 15	NASA-CASE-MFS-18495 US-PATENT-APPL-SN-38814 US-PATENT-CLASS-24-211N US-PATENT-CLASS-85-58 US-PATENT-3,596,554
N71-33109*	c 09	NASA-CASE-ARC-10101-1 US-PATENT-APPL-SN-793823 US-PATENT-CLASS-307-251 US-PATENT-CLASS-307-261 US-PATENT-CLASS-321-47 US-PATENT-3,588,671	N72-10138* #	c 06	NASA-CASE-HQN-10537-1 US-PATENT-APPL-SN-112366	N72-11386*	c 15	NASA-CASE-MFS-20249 US-PATENT-APPL-SN-794530 US-PATENT-CLASS-248-183 US-PATENT-CLASS-248-278 US-PATENT-CLASS-248-487 US-PATENT-CLASS-33-72 US-PATENT-CLASS-350-285 US-PATENT-CLASS-350-287 US-PATENT-3,596,863
N71-33110*	c 08	NASA-CASE-GSC-10186 US-PATENT-APPL-SN-713188 US-PATENT-CLASS-235-164 US-PATENT-CLASS-235-175 US-PATENT-3,588,483	N72-10375* #	c 14	NASA-CASE-GSC-11095-1 US-PATENT-APPL-SN-147940	N72-11387*	c 15	NASA-CASE-XMF-09902 US-PATENT-APPL-SN-769665 US-PATENT-CLASS-75-20F US-PATENT-3,592,628
N71-33129*	c 10	NASA-CASE-GSC-10667-1 US-PATENT-APPL-SN-749548 US-PATENT-CLASS-330-11 US-PATENT-CLASS-330-16 US-PATENT-CLASS-330-24 US-PATENT-3,585,514	N72-11062* #	c 03	NASA-CASE-XGS-04047-2 US-PATENT-APPL-SN-843251 US-PATENT-CLASS-136-206 US-PATENT-3,597,281	N72-11388*	c 15	NASA-CASE-MFS-20423 US-PATENT-APPL-SN-865298 US-PATENT-CLASS-212-134 US-PATENT-CLASS-308-5 US-PATENT-3,600,046
N71-33160*	c 31	NASA-CASE-XLA-04063 US-PATENT-APPL-SN-802948 US-PATENT-CLASS-179-1 US-PATENT-CLASS-244-1 US-PATENT-CLASS-244-83 US-PATENT-3,586,261	N72-11084* #	c 05	NASA-CASE-NPO-10677 US-PATENT-APPL-SN-868530 US-PATENT-CLASS-62-467 US-PATENT-CLASS-62-56 US-PATENT-3,599,443	N72-11389*	c 15	NASA-CASE-XLA-05056 US-PATENT-APPL-SN-596733 US-PATENT-CLASS-210-445 US-PATENT-3,592,768
N71-33229*	c 23	NASA-CASE-NPO-10468 US-PATENT-APPL-SN-787846 US-PATENT-CLASS-350-310 US-PATENT-CLASS-350-55 US-PATENT-3,588,220	N72-11085* #	c 05	NASA-CASE-MS-13140 US-PATENT-APPL-SN-796358 US-PATENT-CLASS-285-410 US-PATENT-CLASS-297-232 US-PATENT-CLASS-297-68 US-PATENT-CLASS-5-69 US-PATENT-3,592,505	N72-11390*	c 15	NASA-CASE-MFS-18100 US-PATENT-APPL-SN-784055 US-PATENT-CLASS-15-143 US-PATENT-CLASS-15-210 US-PATENT-3,591,885
N71-33407*	c 10	NASA-CASE-NPO-10342 US-PATENT-APPL-SN-704446 US-PATENT-CLASS-178-69.5 US-PATENT-CLASS-179-15BS US-PATENT-CLASS-340-347DD US-PATENT-3,588,883	N72-11148* #	c 07	NASA-CASE-NPO-10301 US-PATENT-APPL-SN-848810 US-PATENT-CLASS-343-771 US-PATENT-CLASS-343-853 US-PATENT-3,599,216	N72-11391*	c 15	NASA-CASE-NPO-11012 US-PATENT-APPL-SN-845807 US-PATENT-CLASS-248-18 US-PATENT-CLASS-248-20 US-PATENT-3,592,422
N71-33408*	c 17	NASA-CASE-LEW-10327 US-PATENT-APPL-SN-772006 US-PATENT-CLASS-148-6.3 US-PATENT-3,591,426	N72-11149* #	c 07	NASA-CASE-GSC-10390-1 US-PATENT-APPL-SN-749121 US-PATENT-CLASS-325-39 US-PATENT-CLASS-325-4 US-PATENT-CLASS-325-58 US-PATENT-CLASS-343-179 US-PATENT-CLASS-343-5DP US-PATENT-CLASS-343-7.5 US-PATENT-3,593,138	N72-11392*	c 15	NASA-CASE-MFS-20299 US-PATENT-APPL-SN-889437 US-PATENT-CLASS-156-320 US-PATENT-CLASS-156-66 US-PATENT-CLASS-219-221 US-PATENT-CLASS-219-243 US-PATENT-3,593,001
N71-33409*	c 03	NASA-CASE-ARC-10050 US-PATENT-APPL-SN-797219 US-PATENT-CLASS-136-89 US-PATENT-3,591,420	N72-11150* #	c 07	NASA-CASE-NPO-11064 US-PATENT-APPL-SN-880248 US-PATENT-CLASS-331-10 US-PATENT-CLASS-331-34 US-PATENT-CLASS-331-66 US-PATENT-CLASS-331-7 US-PATENT-3,593,180	N72-11568* #	c 23	NASA-CASE-GSC-11133-1 US-PATENT-APPL-SN-121328
N71-33410*	c 16	NASA-CASE-NPO-10417 US-PATENT-APPL-SN-753974 US-PATENT-CLASS-331-94.5 US-PATENT-CLASS-352-84 US-PATENT-CLASS-95-11 US-PATENT-3,587,424	N72-11171* #	c 08	NASA-CASE-NPO-10769 US-PATENT-APPL-SN-813494 US-PATENT-CLASS-179-15.55R US-PATENT-3,598,921	N72-11595* #	c 24	NASA-CASE-MFS-20095 US-PATENT-APPL-SN-855004 US-PATENT-CLASS-250-49.5B US-PATENT-CLASS-250-51 US-PATENT-CLASS-250-52 US-PATENT-3,593,024
N71-33518*	c 15	NASA-CASE-XLA-03661 US-PATENT-APPL-SN-751266 US-PATENT-CLASS-408-137 US-PATENT-CLASS-90-11 US-PATENT-3,585,882	N72-11172* #	c 08	NASA-CASE-GSC-10880-1 US-PATENT-APPL-SN-831118 US-PATENT-CLASS-235-61NV US-PATENT-CLASS-33-15A US-PATENT-CLASS-33-204C US-PATENT-3,599,335	N72-11708*	c 28	NASA-CASE-MFS-20619 US-PATENT-APPL-SN-18982 US-PATENT-CLASS-139-425R US-PATENT-CLASS-239-265.19 US-PATENT-CLASS-239-265.43 US-PATENT-CLASS-60-271 US-PATENT-3,596,465
N71-33519*	c 09	NASA-CASE-ERC-10100 US-PATENT-APPL-SN-766697 US-PATENT-CLASS-313-109.5 US-PATENT-CLASS-313-231 US-PATENT-CLASS-315-108 US-PATENT-CLASS-315-111 US-PATENT-CLASS-340-324 US-PATENT-CLASS-340-336 US-PATENT-3,588,874	N72-11224* #	c 09	NASA-CASE-GSC-10614-1 US-PATENT-APPL-SN-822534 US-PATENT-CLASS-179-100-2CA US-PATENT-CLASS-179-100-2MD US-PATENT-CLASS-274-4R US-PATENT-3,592,478	N72-11709*	c 28	NASA-CASE-NPO-10737 US-PATENT-APPL-SN-760114 US-PATENT-CLASS-60-202 US-PATENT-CLASS-60-39-48 US-PATENT-3,591,967
N71-33606*	c 07	NASA-CASE-NPO-11031 US-PATENT-APPL-SN-864097 US-PATENT-CLASS-333-21A US-PATENT-CLASS-333-6 US-PATENT-CLASS-333-7 US-PATENT-3,588,751	N72-11225* #	c 09	NASA-CASE-KSC-10162 US-PATENT-APPL-SN-817481 US-PATENT-CLASS-324-102 US-PATENT-CLASS-324-119 US-PATENT-CLASS-324-123R US-PATENT-3,593,132	N72-12080*	c 07	NASA-CASE-GSC-10087-3 US-PATENT-APPL-SN-880885 US-PATENT-CLASS-325-4 US-PATENT-CLASS-343-6.5R US-PATENT-CLASS-343-6.8R US-PATENT-3,594,790
N71-33612*	c 11	NASA-CASE-XLA-09480 US-PATENT-APPL-SN-874435 US-PATENT-CLASS-73-147 US-PATENT-3,587,306	N72-11256* #	c 10	NASA-CASE-ARC-10042-2 US-PATENT-APPL-SN-33159 US-PATENT-CLASS-330-107 US-PATENT-CLASS-330-109 US-PATENT-3,593,175	N72-12081*	c 07	NASA-CASE-GSC-10185-1 US-PATENT-APPL-SN-733039 US-PATENT-CLASS-178-DIG.12 US-PATENT-CLASS-178-6 US-PATENT-CLASS-178-7.3 US-PATENT-CLASS-325-10 US-PATENT-CLASS-325-13 US-PATENT-3,588,331
N71-33613*	c 07	NASA-CASE-NPO-10700 US-PATENT-APPL-SN-840308 US-PATENT-CLASS-318-227 US-PATENT-CLASS-318-230 US-PATENT-3,588,648	N72-11363* #	c 14	NASA-CASE-MS-11847-1 US-PATENT-APPL-SN-8497 US-PATENT-CLASS-73-149 US-PATENT-CLASS-73-290B US-PATENT-3,596,510	N72-12136*	c 09	NASA-CASE-XER-09521 US-PATENT-APPL-SN-771530 US-PATENT-CLASS-136-202 US-PATENT-CLASS-136-206 US-PATENT-CLASS-136-227 US-PATENT-CLASS-343-DIG.3 US-PATENT-CLASS-343-720 US-PATENT-CLASS-343-840 US-PATENT-3,594,803
N71-33696*	c 07	NASA-CASE-MS-12165-1 US-PATENT-APPL-SN-875849 US-PATENT-CLASS-325-347 US-PATENT-CLASS-325-348 US-PATENT-CLASS-325-473 US-PATENT-CLASS-325-478 US-PATENT-CLASS-325-480 US-PATENT-CLASS-325-482 US-PATENT-CLASS-328-164 US-PATENT-CLASS-328-165	N72-11364* #	c 14	NASA-CASE-NPO-10778 US-PATENT-APPL-SN-865909 US-PATENT-CLASS-250-235 US-PATENT-CLASS-33-125 US-PATENT-CLASS-356-167 US-PATENT-CLASS-356-32	N72-12408*	c 15	NASA-CASE-XLA-05966

		US-PATENT-APPL-SN-784544			US-PATENT-APPL-SN-887698	N72-17451*	c 15	NASA-CASE-WLP-10002
		US-PATENT-CLASS-140-105			US-PATENT-CLASS-128-2.1A			US-PATENT-APPL-SN-47062
		US-PATENT-CLASS-72-307			US-PATENT-CLASS-307-252F			US-PATENT-CLASS-180-125
		US-PATENT-3,584,660			US-PATENT-CLASS-307-252J			US-PATENT-CLASS-180-127
N72-12409*	c 15	NASA-CASE-NPO-10637			US-PATENT-CLASS-325-492			US-PATENT-CLASS-308-DIG.1
		US-PATENT-APPL-SN-851298			US-PATENT-CLASS-340-177			US-PATENT-CLASS-308-5
		US-PATENT-CLASS-236-68			US-PATENT-3,603,946			US-PATENT-CLASS-308-9
		US-PATENT-CLASS-337-354	N72-17154*	c 09	NASA-CASE-ERC-10139	N72-17452*	c 15	US-PATENT-3,610,365
		US-PATENT-CLASS-337-359			US-PATENT-APPL-SN-889555			NASA-CASE-XLA-10322
		US-PATENT-CLASS-337-75			US-PATENT-CLASS-321-10			US-PATENT-APPL-SN-887699
		US-PATENT-CLASS-60-23			US-PATENT-CLASS-336-178			US-PATENT-CLASS-73-88.5R
		US-PATENT-3,591,960			US-PATENT-3,603,864			US-PATENT-3,608,365
N72-12440*	c 16	NASA-CASE-MFS-20180	N72-17155*	c 09	NASA-CASE-NPO-11023	N72-17453*	c 15	NASA-CASE-NPO-11177
		US-PATENT-APPL-SN-863276			US-PATENT-APPL-SN-865274			US-PATENT-APPL-SN-20960
		US-PATENT-CLASS-331-94.5			US-PATENT-CLASS-330-18			US-PATENT-CLASS-62-51
		US-PATENT-CLASS-350-1			US-PATENT-CLASS-330-40			US-PATENT-3,605,424
		US-PATENT-CLASS-350-312			US-PATENT-3,603,892	N72-17454*	c 15	NASA-CASE-NPO-11059
		US-PATENT-3,593,194	N72-17156*	c 09	NASA-CASE-NPO-10199			US-PATENT-APPL-SN-864020
N72-13437*	c 16	NASA-CASE-MFS-20125			US-PATENT-APPL-SN-739391			US-PATENT-CLASS-248-14
		US-PATENT-APPL-SN-830366			US-PATENT-CLASS-178-7.1			US-PATENT-3,606,979
		US-PATENT-CLASS-178-DIG.21			US-PATENT-CLASS-330-11	N72-17455*	c 15	NASA-CASE-NPO-11140
		US-PATENT-CLASS-178-6			US-PATENT-CLASS-330-35			US-PATENT-APPL-SN-15019
		US-PATENT-CLASS-250-203X			US-PATENT-3,609,230			US-PATENT-CLASS-174-84
		US-PATENT-CLASS-356-152	N72-17157*	c 09	NASA-CASE-NPO-11253			US-PATENT-CLASS-200-64
		US-PATENT-3,603,686			US-PATENT-APPL-SN-21906			US-PATENT-CLASS-339-176M
N72-15098* #	c 05	NASA-CASE-MS-13917-1			US-PATENT-CLASS-307-223			US-PATENT-CLASS-339-278M
		US-PATENT-APPL-SN-198355			US-PATENT-CLASS-307-227			US-PATENT-CLASS-339-46
N72-15986*	c 03	NASA-CASE-XGS-10010			US-PATENT-CLASS-307-81			US-PATENT-CLASS-89-1.811
		US-PATENT-APPL-SN-729299			US-PATENT-CLASS-328-186			US-PATENT-3,611,274
		US-PATENT-CLASS-136-133			US-PATENT-3,609,387	N72-17532*	c 18	NASA-CASE-MFS-13532
		US-PATENT-CLASS-136-135	N72-17171*	c 10	NASA-CASE-XAC-05462-2			US-PATENT-APPL-SN-720546
		US-PATENT-CLASS-136-6			US-PATENT-APPL-SN-28235			US-PATENT-CLASS-106-292
		US-PATENT-3,607,401			US-PATENT-CLASS-307-295			US-PATENT-CLASS-106-299
N72-16015*	c 05	NASA-CASE-KSC-10278			US-PATENT-CLASS-328-167	N72-17747*	c 23	NASA-CASE-ERC-10089
		US-PATENT-APPL-SN-856327			US-PATENT-CLASS-330-109			US-PATENT-APPL-SN-791267
		US-PATENT-CLASS-324-66			US-PATENT-CLASS-330-176			US-PATENT-CLASS-340-174AG
		US-PATENT-CLASS-340-279			US-PATENT-CLASS-333-70CR			US-PATENT-CLASS-340-174CA
		US-PATENT-CLASS-35-8			US-PATENT-3,609,567			US-PATENT-CLASS-340-174SC
		US-PATENT-3,609,740	N72-17172*	c 10	NASA-CASE-ARC-10020			US-PATENT-3,611,330
N72-16172*	c 10	NASA-CASE-ARC-10269-1			US-PATENT-APPL-SN-31885	N72-17820*	c 26	NASA-CASE-XER-08476-1
		US-PATENT-APPL-SN-56791			US-PATENT-CLASS-330-107			US-PATENT-APPL-SN-672388
		US-PATENT-CLASS-307-230			US-PATENT-CLASS-330-109			US-PATENT-CLASS-148-187
		US-PATENT-CLASS-307-262			US-PATENT-CLASS-330-26			US-PATENT-CLASS-29-578
		US-PATENT-CLASS-328-155			US-PATENT-CLASS-330-31			US-PATENT-CLASS-29-589
		US-PATENT-3,614,475			US-PATENT-CLASS-330-94	N72-17843*	c 28	US-PATENT-3,602,984
N72-16282*	c 14	NASA-CASE-LAR-10913	N72-17173*	c 10	NASA-CASE-MFS-13130			NASA-CASE-NPO-10046
		US-PATENT-APPL-SN-779160			US-PATENT-APPL-SN-7868			US-PATENT-APPL-SN-860635
		US-PATENT-CLASS-73-12			US-PATENT-CLASS-250-209			US-PATENT-CLASS-60-258
		US-PATENT-3,605,482			US-PATENT-CLASS-250-83.3UV			US-PATENT-CLASS-60-39.74
N72-16283*	c 14	NASA-CASE-GSC-10780-1			US-PATENT-CLASS-340-228.2	N72-17873*	c 30	US-PATENT-3,603,092
		US-PATENT-APPL-SN-860493			US-PATENT-3,609,364			NASA-CASE-ARC-10134
		US-PATENT-CLASS-82-24R	N72-17183*	c 11	NASA-CASE-MFS-20509			US-PATENT-APPL-SN-819898
		US-PATENT-3,608,409			US-PATENT-APPL-SN-889557			US-PATENT-CLASS-244-3.21
N72-16329*	c 15	NASA-CASE-XLA-07829			US-PATENT-CLASS-73-147			US-PATENT-3,603,532
		US-PATENT-APPL-SN-763684			US-PATENT-3,602,920	N72-17947*	c 33	NASA-CASE-MS-12143-1
		US-PATENT-CLASS-264-DIG.44			NASA-CASE-ERC-10248			US-PATENT-APPL-SN-791268
		US-PATENT-CLASS-264-221			US-PATENT-APPL-SN-868445			US-PATENT-CLASS-102-105
		US-PATENT-CLASS-264-225			US-PATENT-CLASS-350-162			US-PATENT-CLASS-161-67
		US-PATENT-CLASS-264-227			US-PATENT-CLASS-356-113			US-PATENT-CLASS-244-117
		US-PATENT-3,608,046			US-PATENT-CLASS-356-209			US-PATENT-3,603,260
N72-16330*	c 15	NASA-CASE-LAR-10203-1			US-PATENT-CLASS-356-244	N72-17948*	c 33	NASA-CASE-NPO-10828
		US-PATENT-APPL-SN-769592			US-PATENT-3,603,690			US-PATENT-APPL-SN-873260
		US-PATENT-CLASS-156-84			NASA-CASE-MFS-20596			US-PATENT-CLASS-165-105
		US-PATENT-CLASS-156-86	N72-17324*	c 14	US-PATENT-APPL-SN-7867			US-PATENT-3,603,382
		US-PATENT-3,607,495			US-PATENT-CLASS-350-3.5	N72-18184*	c 08	NASA-CASE-NPO-10629
N72-17093*	c 06	NASA-CASE-LEW-10794-1			US-PATENT-3,605,519			US-PATENT-APPL-SN-860751
		US-PATENT-APPL-SN-33535			NASA-CASE-MS-15158-1			US-PATENT-CLASS-178-50
		US-PATENT-CLASS-23-55	N72-17325*	c 14	US-PATENT-APPL-SN-889479			US-PATENT-CLASS-178-66
		US-PATENT-CLASS-23-88			US-PATENT-CLASS-324-52			US-PATENT-CLASS-179-15
		US-PATENT-CLASS-23-97			US-PATENT-3,609,535			US-PATENT-CLASS-235-154
		US-PATENT-3,607,015			NASA-CASE-XMS-01994-1			US-PATENT-CLASS-340-347DD
N72-17094*	c 06	NASA-CASE-NPO-10234	N72-17326*	c 14	US-PATENT-APPL-SN-814212			US-PATENT-3,603,976
		US-PATENT-APPL-SN-800204			US-PATENT-CLASS-356-4	N72-18411*	c 14	NASA-CASE-KSC-10294
		US-PATENT-CLASS-23-230R			US-PATENT-3,603,683			US-PATENT-APPL-SN-889556
		US-PATENT-CLASS-23-232C			NASA-CASE-LEW-10281-1			US-PATENT-CLASS-307-311
		US-PATENT-CLASS-23-253PC	N72-17327*	c 14	US-PATENT-APPL-SN-861649			US-PATENT-CLASS-346-107A
		US-PATENT-CLASS-73-23.1			US-PATENT-CLASS-73-198			US-PATENT-CLASS-346-23
		US-PATENT-3,607,076			US-PATENT-3,605,495			US-PATENT-CLASS-352-84
N72-17095*	c 06	NASA-CASE-NPO-10774	N72-17328*	c 14	NASA-CASE-XLA-07813			US-PATENT-CLASS-95-1.1
		US-PATENT-APPL-SN-848805			US-PATENT-APPL-SN-791364			US-PATENT-3,603,974
		US-PATENT-CLASS-23-201			US-PATENT-CLASS-250-207	N72-18477*	c 15	NASA-CASE-GSC-10566-1
		US-PATENT-CLASS-23-230			US-PATENT-CLASS-250-41.9			US-PATENT-APPL-SN-889438
		US-PATENT-CLASS-23-253			US-PATENT-CLASS-250-49.5			US-PATENT-CLASS-242-54
		US-PATENT-CLASS-73-76			US-PATENT-CLASS-250-71.5			US-PATENT-CLASS-52-108
		US-PATENT-3,607,080			US-PATENT-CLASS-250-83.3			US-PATENT-3,608,844
N72-17109*	c 07	NASA-CASE-MS-12146-1			US-PATENT-3,609,353	N72-18766*	c 28	NASA-CASE-GSC-10640-1
		US-PATENT-APPL-SN-50206			NASA-CASE-FRC-10012			US-PATENT-APPL-SN-71701
		US-PATENT-CLASS-178-5.2R	N72-17329*	c 14	US-PATENT-APPL-SN-771216			US-PATENT-CLASS-23-281
		US-PATENT-CLASS-178-5.4			US-PATENT-CLASS-73-194A			US-PATENT-CLASS-23-288
		US-PATENT-CLASS-178-6.7			US-PATENT-3,611,801			US-PATENT-CLASS-60-260
		US-PATENT-3,603,722	N72-17450*	c 15	NASA-CASE-MS-12279			US-PATENT-3,603,093
N72-17152*	c 09	NASA-CASE-ARC-10178-1			US-PATENT-APPL-SN-24154	N72-18859*	c 31	NASA-CASE-MS-13281
		US-PATENT-APPL-SN-47443			US-PATENT-CLASS-188-1C			US-PATENT-APPL-SN-7669
		US-PATENT-CLASS-250-211J			US-PATENT-CLASS-188-129			US-PATENT-CLASS-244-15.5
		US-PATENT-3,603,798			US-PATENT-3,603,433			
N72-17153*	c 09	NASA-CASE-ARC-10105						

N72-20031*	c 03	US-PATENT-3,606,212	US-PATENT-CLASS-307-313	US-PATENT-APPL-SN-10161
		NASA-CASE-GSC-10669-1	US-PATENT-CLASS-328-207	US-PATENT-CLASS-122-32
		US-PATENT-APPL-SN-90595	US-PATENT-CLASS-330-300	US-PATENT-CLASS-165-133
N72-20032*	c 03	US-PATENT-CLASS-136-89	US-PATENT-3,633,048	US-PATENT-CLASS-165-155
		US-PATENT-CLASS-244-155	NASA-CASE-XLA-11189	US-PATENT-CLASS-165-158
		US-PATENT-CLASS-340-210	US-PATENT-APPL-SN-889375	US-PATENT-CLASS-165-161
N72-20033*	c 03	US-PATENT-3,636,539	US-PATENT-CLASS-324-115	US-PATENT-CLASS-165-174
		NASA-CASE-NPO-11021	US-PATENT-CLASS-324-132	US-PATENT-3,630,276
		US-PATENT-APPL-SN-880250	US-PATENT-3,638,114	N72-21094* c 06 NASA-CASE-ERC-10108
N72-20034*	c 03	US-PATENT-CLASS-136-166	NASA-CASE-NPO-11133	US-PATENT-APPL-SN-833049
		US-PATENT-CLASS-136-79	US-PATENT-APPL-SN-887685	US-PATENT-CLASS-156-3
		US-PATENT-CLASS-136-81	US-PATENT-CLASS-307-295	US-PATENT-CLASS-96-36.2
N72-20096*	c 05	US-PATENT-3,625,766	US-PATENT-CLASS-328-16	US-PATENT-3,615,465
		NASA-CASE-NPO-10401	US-PATENT-CLASS-328-166	N72-21105* # c 06 NASA-CASE-GSC-11304-1
		US-PATENT-APPL-SN-15025	US-PATENT-CLASS-328-20	US-PATENT-APPL-SN-137912
N72-20097*	c 05	US-PATENT-CLASS-210-212	US-PATENT-CLASS-328-38	N72-21117* c 07 NASA-CASE-XLA-11154
		US-PATENT-CLASS-356-222	US-PATENT-3,626,308	US-PATENT-APPL-SN-23532
		US-PATENT-3,630,627	NASA-CASE-NPO-11203	US-PATENT-CLASS-343-706
N72-20098*	c 05	NASA-CASE-LEW-11359-2	US-PATENT-APPL-SN-3696	US-PATENT-CLASS-343-912
		US-PATENT-APPL-SN-57399	US-PATENT-CLASS-324-83A	US-PATENT-3,623,107
		US-PATENT-CLASS-136-100R	US-PATENT-CLASS-324-85	N72-21118* c 07 NASA-CASE-NPO-11001
N72-20121*	c 06	US-PATENT-CLASS-136-175	US-PATENT-CLASS-328-133	US-PATENT-APPL-SN-856279
		US-PATENT-CLASS-136-83R	US-PATENT-CLASS-343-12	US-PATENT-CLASS-343-100ST
		US-PATENT-3,635,765	US-PATENT-3,631,351	US-PATENT-CLASS-343-5CM
N72-20140*	c 07	NASA-CASE-MSC-12411-1	N72-20224* c 11 NASA-CASE-NPO-11210	US-PATENT-CLASS-343-6.5R
		US-PATENT-APPL-SN-701244	US-PATENT-APPL-SN-65840	US-PATENT-3,624,650
		US-PATENT-CLASS-128-142.5	US-PATENT-CLASS-315-22	N72-21119* c 07 NASA-CASE-ERC-10112
N72-20141*	c 07	US-PATENT-CLASS-128-402	US-PATENT-CLASS-315-25	US-PATENT-APPL-SN-796690
		US-PATENT-CLASS-2-2.1	US-PATENT-3,638,066	US-PATENT-CLASS-179-100.2K
		US-PATENT-3,635,216	NASA-CASE-NPO-11210	US-PATENT-3,614,343
N72-20144*	c 07	NASA-CASE-MFS-20332	US-PATENT-APPL-SN-880831	N72-21197* c 08 NASA-CASE-KSC-10326
		US-PATENT-APPL-SN-869260	US-PATENT-CLASS-123-102	US-PATENT-APPL-SN-25487
		US-PATENT-CLASS-137-469	US-PATENT-CLASS-180-105E	US-PATENT-CLASS-235-155
N72-20145*	c 07	US-PATENT-CLASS-137-81	US-PATENT-CLASS-318-308	US-PATENT-CLASS-340-347DD
		US-PATENT-3,636,966	US-PATENT-CLASS-318-327	US-PATENT-3,638,002
		NASA-CASE-MSC-12398	US-PATENT-CLASS-318-376	N72-21198* c 08 NASA-CASE-ERC-10307
N72-20146*	c 07	US-PATENT-APPL-SN-785615	US-PATENT-3,630,304	US-PATENT-APPL-SN-39755
		US-PATENT-CLASS-2-2.1	NASA-CASE-GSC-10514-1	US-PATENT-CLASS-307-299
		US-PATENT-3,624,839	US-PATENT-APPL-SN-873045	US-PATENT-CLASS-307-303
N72-20147*	c 07	NASA-CASE-NPO-10765	US-PATENT-CLASS-250-208	US-PATENT-CLASS-307-311
		US-PATENT-APPL-SN-770425	US-PATENT-CLASS-356-138	US-PATENT-CLASS-340-173.2
		US-PATENT-CLASS-260-544F	US-PATENT-CLASS-356-152	US-PATENT-CLASS-340-173LS
N72-20148*	c 07	US-PATENT-3,637,842	US-PATENT-3,637,312	US-PATENT-3,623,030
		NASA-CASE-NPO-10844	NASA-CASE-LAR-10176-1	N72-21199* c 08 NASA-CASE-NPO-10743
		US-PATENT-APPL-SN-839934	US-PATENT-APPL-SN-811038	US-PATENT-APPL-SN-850587
N72-20149*	c 07	US-PATENT-CLASS-178-69.5R	US-PATENT-CLASS-95-18	US-PATENT-CLASS-340-174CS
		US-PATENT-CLASS-179-15BS	US-PATENT-3,626,828	US-PATENT-CLASS-340-174LC
		US-PATENT-CLASS-325-321	NASA-CASE-GSC-10503-1	US-PATENT-CLASS-340-174M
N72-20150*	c 07	US-PATENT-CLASS-325-38	US-PATENT-APPL-SN-789044	US-PATENT-CLASS-340-174SR
		US-PATENT-CLASS-325-4	US-PATENT-CLASS-250-83.6R	US-PATENT-3,613,110
		US-PATENT-CLASS-325-58	US-PATENT-3,626,189	N72-21200* c 08 NASA-CASE-NPO-11018
N72-20151*	c 07	US-PATENT-3,626,298	NASA-CASE-GSC-10607-1	US-PATENT-APPL-SN-873259
		NASA-CASE-ERC-10179	US-PATENT-APPL-SN-27340	US-PATENT-CLASS-340-347AD
		US-PATENT-APPL-SN-50207	US-PATENT-CLASS-251-129	US-PATENT-3,613,111
N72-20152*	c 07	US-PATENT-CLASS-325-445	US-PATENT-CLASS-251-333	N72-21243* c 09 NASA-CASE-LEW-11005-1
		US-PATENT-CLASS-329-161	US-PATENT-3,632,081	US-PATENT-APPL-SN-86548
		US-PATENT-CLASS-329-162	NASA-CASE-NPO-10671	US-PATENT-CLASS-323-DIG.1
N72-20153*	c 07	US-PATENT-CLASS-332-51W	US-PATENT-APPL-SN-857967	US-PATENT-CLASS-323-22T
		US-PATENT-CLASS-333-73W	US-PATENT-CLASS-188-1B	US-PATENT-CLASS-323-38
		US-PATENT-CLASS-343-772	US-PATENT-CLASS-188-1C	US-PATENT-3,638,103
N72-20154* #	c 07	US-PATENT-CLASS-343-773	US-PATENT-CLASS-188-268	N72-21244* c 09 NASA-CASE-LAR-10545-1
		US-PATENT-CLASS-343-786	US-PATENT-3,637,051	US-PATENT-APPL-SN-31703
		US-PATENT-3,633,110	NASA-CASE-FRC-10038	US-PATENT-CLASS-343-771
N72-20155*	c 07	NASA-CASE-NPO-11243	US-PATENT-APPL-SN-889554	US-PATENT-CLASS-343-893
		US-PATENT-APPL-SN-177753	US-PATENT-CLASS-29-412	US-PATENT-3,638,224
		NASA-CASE-NPO-11130	US-PATENT-CLASS-29-426	N72-21245* c 09 NASA-CASE-ARC-10192
N72-20156*	c 08	US-PATENT-CLASS-235-152	US-PATENT-CLASS-29-624	US-PATENT-APPL-SN-15024
		US-PATENT-CLASS-235-92CC	US-PATENT-CLASS-51-216	US-PATENT-CLASS-307-230
		US-PATENT-CLASS-235-92DE	US-PATENT-CLASS-51-320	US-PATENT-CLASS-307-295
N72-20157*	c 08	US-PATENT-CLASS-235-92DM	US-PATENT-CLASS-51-323	US-PATENT-CLASS-328-142
		US-PATENT-CLASS-235-92LG	US-PATENT-3,636,623	US-PATENT-CLASS-328-167
		US-PATENT-CLASS-235-92R	NASA-CASE-NPO-10704	US-PATENT-CLASS-330-70R
N72-20158*	c 08	US-PATENT-CLASS-340-347DA	US-PATENT-APPL-SN-59895	US-PATENT-CLASS-330-85
		US-PATENT-CLASS-340-347DD	US-PATENT-CLASS-138-178	US-PATENT-3,621,407
		US-PATENT-3,632,996	US-PATENT-CLASS-285-18	N72-21246* c 09 NASA-CASE-NPO-11134
N72-20159*	c 09	NASA-CASE-NPO-10748	US-PATENT-CLASS-285-345	US-PATENT-APPL-SN-883524
		US-PATENT-APPL-SN-63383	US-PATENT-3,632,140	US-PATENT-CLASS-318-576
		US-PATENT-CLASS-324-77G	NASA-CASE-MFS-20698	US-PATENT-CLASS-324-71R
N72-20160*	c 09	US-PATENT-3,631,339	US-PATENT-APPL-SN-3418	US-PATENT-CLASS-346-1
		NASA-CASE-NPO-10722	US-PATENT-CLASS-100-299	US-PATENT-CLASS-346-29
		US-PATENT-APPL-SN-860492	US-PATENT-CLASS-23-209.1	US-PATENT-3,624,659
N72-20161*	c 09	US-PATENT-CLASS-200-81.9M	US-PATENT-CLASS-264-22	N72-21247* c 09 NASA-CASE-KSC-10393
		US-PATENT-CLASS-335-205	US-PATENT-CLASS-425-77	US-PATENT-APPL-SN-71047
		US-PATENT-3,632,923	US-PATENT-3,632,242	US-PATENT-CLASS-307-257
N72-20162*	c 09	NASA-CASE-NPO-10694	NASA-CASE-XLE-04599	US-PATENT-CLASS-307-259
		US-PATENT-APPL-SN-24224	US-PATENT-APPL-SN-751215	US-PATENT-CLASS-331-111
		US-PATENT-CLASS-339-275T	US-PATENT-CLASS-176-86G	US-PATENT-CLASS-331-14
N72-20163*	c 09	US-PATENT-CLASS-339-276T	US-PATENT-3,629,068	US-PATENT-CLASS-331-23
		US-PATENT-3,631,382	NASA-CASE-XNP-03282	US-PATENT-CLASS-331-30
		NASA-CASE-ERC-10468	US-PATENT-APPL-SN-745337	US-PATENT-3,614,648
N72-20164*	c 09	US-PATENT-APPL-SN-144958	US-PATENT-CLASS-60-254	N72-21248* # c 09 NASA-CASE-LAR-10503-1
		NASA-CASE-GSC-10082-1	US-PATENT-3,636,711	US-PATENT-APPL-SN-229143
		US-PATENT-APPL-SN-41430	NASA-CASE-MFS-20922	N72-21310* c 12 NASA-CASE-MFS-20829
N72-20165*	c 10	US-PATENT-CLASS-307-273	US-PATENT-APPL-SN-220274	US-PATENT-APPL-SN-61894
		US-PATENT-CLASS-307-288	NASA-CASE-NPO-10831	US-PATENT-CLASS-169-28

		US-PATENT-CLASS-169-36			US-PATENT-APPL-SN-78065			US-PATENT-CLASS-325-29
		US-PATENT-3,613,794			US-PATENT-CLASS-178-52			US-PATENT-CLASS-325-492
N72-21405*	c 14	NASA-CASE-NPO-10832			US-PATENT-CLASS-179-15A			US-PATENT-CLASS-340-171
		US-PATENT-APPL-SN-22265			US-PATENT-CLASS-179-15BL			US-PATENT-CLASS-340-203
		US-PATENT-CLASS-73-141A			US-PATENT-CLASS-307-243			US-PATENT-3,621,290
		US-PATENT-3,623,360			US-PATENT-CLASS-307-251	N72-22203*	c 09	NASA-CASE-XER-11046
N72-21407*	c 14	NASA-CASE-MFS-20642			US-PATENT-CLASS-328-104			US-PATENT-APPL-SN-810579
		US-PATENT-APPL-SN-873793			US-PATENT-CLASS-328-154			US-PATENT-CLASS-321-15
		US-PATENT-CLASS-73-147			US-PATENT-3,614,327			US-PATENT-CLASS-321-18
		US-PATENT-3,623,361	N72-22163*	c 08	NASA-CASE-MSC-13110-1			US-PATENT-CLASS-321-2
N72-21408*	c 14	NASA-CASE-MSC-13332-1			US-PATENT-APPL-SN-23132			US-PATENT-CLASS-321-45
		US-PATENT-APPL-SN-77169			US-PATENT-CLASS-340-347AD			US-PATENT-CLASS-331-117
		US-PATENT-CLASS-250-43.5R			US-PATENT-3,614,772			US-PATENT-3,621,362
		US-PATENT-CLASS-250-83.3H	N72-22164*	c 08	NASA-CASE-NPO-10745	N72-22204*	c 09	NASA-CASE-LAR-10137-1
		US-PATENT-3,614,431			US-PATENT-APPL-SN-878730			US-PATENT-APPL-SN-881041
N72-21409*	c 14	NASA-CASE-MSC-12105-1			US-PATENT-CLASS-178-DIG.28			US-PATENT-CLASS-200-81R
		US-PATENT-APPL-SN-763743			US-PATENT-CLASS-178-DIG.36			US-PATENT-CLASS-200-82C
		US-PATENT-CLASS-356-17			US-PATENT-CLASS-178-6.8			US-PATENT-3,609,271
		US-PATENT-CLASS-356-18			US-PATENT-CLASS-178-7.2R	N72-22235*	c 10	NASA-CASE-GSC-10064-1
		US-PATENT-3,614,228			US-PATENT-3,621,130			US-PATENT-APPL-SN-802812
N72-21462*	c 15	NASA-CASE-NPO-10679	N72-22165*	c 08	NASA-CASE-NPO-11104			US-PATENT-CLASS-343-16M
		US-PATENT-APPL-SN-848282			US-PATENT-APPL-SN-860750			US-PATENT-CLASS-343-7.4
		US-PATENT-CLASS-74-89.15			US-PATENT-CLASS-235-150.52			US-PATENT-CLASS-343-779
		US-PATENT-3,614,898			US-PATENT-CLASS-235-150.53			US-PATENT-CLASS-343-786
N72-21463*	c 15	NASA-CASE-MFS-20413			US-PATENT-CLASS-235-183			US-PATENT-3,623,094
		US-PATENT-APPL-SN-69209			US-PATENT-CLASS-235-194	N72-22236*	c 10	NASA-CASE-GSC-10878-1
		US-PATENT-CLASS-74-469			US-PATENT-CLASS-235-197			US-PATENT-APPL-SN-889423
		US-PATENT-3,620,095			US-PATENT-CLASS-340-347R			US-PATENT-CLASS-307-206
N72-21464*	c 15	NASA-CASE-ARC-10176-1			US-PATENT-3,621,228			US-PATENT-CLASS-307-215
		US-PATENT-APPL-SN-889583	N72-22166*	c 08	NASA-CASE-NPO-10560			US-PATENT-CLASS-307-322
		US-PATENT-CLASS-324-57R			US-PATENT-APPL-SN-856282			US-PATENT-CLASS-307-323
		US-PATENT-CLASS-324-64			US-PATENT-CLASS-235-153			US-PATENT-3,621,277
		US-PATENT-CLASS-324-71R			US-PATENT-CLASS-324-73AT	N72-22245*	c 11	NASA-CASE-NPO-12109
		US-PATENT-3,624,496			US-PATENT-CLASS-340-347AD			US-PATENT-APPL-SN-690172
N72-21465*	c 15	NASA-CASE-GSC-10218-1			US-PATENT-3,603,772			US-PATENT-CLASS-230-221
		US-PATENT-APPL-SN-15022	N72-22167*	c 08	NASA-CASE-NPO-11082			US-PATENT-CLASS-230-54
		US-PATENT-CLASS-141-23			US-PATENT-APPL-SN-868529			US-PATENT-3,612,391
		US-PATENT-CLASS-195-127			US-PATENT-CLASS-235-152	N72-22246*	c 11	NASA-CASE-XLA-07430
		US-PATENT-CLASS-222-135			US-PATENT-CLASS-340-146.1			US-PATENT-APPL-SN-867841
		US-PATENT-CLASS-222-309			US-PATENT-CLASS-340-348			US-PATENT-CLASS-73-147
		US-PATENT-CLASS-222-71			US-PATENT-3,609,327			US-PATENT-3,620,076
		US-PATENT-CLASS-23-253R	N72-22195*	c 09	NASA-CASE-MFS-14710	N72-22247*	c 11	NASA-CASE-NPO-11013
		US-PATENT-CLASS-23-259			US-PATENT-APPL-SN-852843			US-PATENT-APPL-SN-858695
		US-PATENT-CLASS-73-425.6			US-PATENT-CLASS-74-105			US-PATENT-CLASS-42-1F
		US-PATENT-3,615,241			US-PATENT-3,614,899			US-PATENT-3,619,924
N72-21466*	c 15	NASA-CASE-NPO-10440	N72-22196*	c 09	NASA-CASE-ERC-10075-2	N72-22437*	c 14	NASA-CASE-LAR-10496-1
		US-PATENT-APPL-SN-756834			US-PATENT-APPL-SN-775870			US-PATENT-APPL-SN-12661
		US-PATENT-CLASS-204-130			US-PATENT-CLASS-321-14			US-PATENT-CLASS-73-141A
		US-PATENT-CLASS-204-59			US-PATENT-CLASS-321-19			US-PATENT-3,611,798
		US-PATENT-3,616,338			US-PATENT-CLASS-321-2	N72-22438*	c 14	NASA-CASE-ARC-10263-1
N72-21489* #	c 15	NASA-CASE-XLA-10470			US-PATENT-CLASS-321-25			US-PATENT-APPL-SN-882122
		US-PATENT-APPL-SN-219436			US-PATENT-CLASS-323-56			US-PATENT-CLASS-73-398C
N72-21624*	c 21	NASA-CASE-HQN-10439			US-PATENT-CLASS-323-89C			US-PATENT-3,620,083
		US-PATENT-APPL-SN-889551			US-PATENT-3,614,587	N72-22439*	c 14	NASA-CASE-MFS-20890
		US-PATENT-CLASS-244-1SA	N72-22197*	c 09	NASA-CASE-LEW-10433-1			US-PATENT-APPL-SN-103229
		US-PATENT-3,637,170			US-PATENT-APPL-SN-849106			US-PATENT-CLASS-264-22
N72-21701*	c 26	NASA-CASE-ERC-10119			US-PATENT-CLASS-307-262			US-PATENT-CLASS-29-421
		US-PATENT-APPL-SN-825258			US-PATENT-CLASS-307-88MP			US-PATENT-CLASS-310-11
		US-PATENT-CLASS-307-299			US-PATENT-3,612,895			US-PATENT-CLASS-310-42
		US-PATENT-CLASS-317-234V	N72-22198*	c 09	NASA-CASE-MFS-13687-2			US-PATENT-3,626,218
		US-PATENT-CLASS-317-235R			US-PATENT-APPL-SN-80369	N72-22440*	c 14	NASA-CASE-ARC-10154-1
		US-PATENT-CLASS-331-107			US-PATENT-CLASS-174-106R			US-PATENT-APPL-SN-793771
		US-PATENT-CLASS-332-31			US-PATENT-CLASS-174-117FF			US-PATENT-CLASS-73-67.2
		US-PATENT-3,614,557			US-PATENT-CLASS-174-36			US-PATENT-3,620,069
N72-21893* #	c 31	NASA-CASE-KSC-10622-1			US-PATENT-3,612,743	N72-22441*	c 14	NASA-CASE-NPO-11002
		US-PATENT-APPL-SN-149983	N72-22199*	c 09	NASA-CASE-ERC-10222			US-PATENT-APPL-SN-856328
N72-22041*	c 03	NASA-CASE-NPO-10591			US-PATENT-APPL-SN-832603			US-PATENT-CLASS-350-19
		US-PATENT-APPL-SN-776185			US-PATENT-CLASS-29-590			US-PATENT-CLASS-350-23
		US-PATENT-CLASS-29-572			US-PATENT-3,621,565			US-PATENT-CLASS-350-26
		US-PATENT-3,616,528	N72-22200*	c 09	NASA-CASE-FRC-10036			US-PATENT-CLASS-350-35
N72-22042*	c 03	NASA-CASE-NPO-10747			US-PATENT-APPL-SN-872602			US-PATENT-CLASS-350-36
		US-PATENT-APPL-SN-66116			US-PATENT-CLASS-307-237			US-PATENT-CLASS-350-49
		US-PATENT-CLASS-136-89			US-PATENT-CLASS-307-254			US-PATENT-CLASS-350-52
		US-PATENT-3,615,853			US-PATENT-CLASS-307-317			US-PATENT-3,612,645
N72-22092*	c 05	NASA-CASE-ARC-10275-1			US-PATENT-CLASS-328-1	N72-22442*	c 14	NASA-CASE-MFS-21629
		US-PATENT-APPL-SN-21644			US-PATENT-CLASS-328-151			US-PATENT-APPL-SN-612265
		US-PATENT-CLASS-2-2.1A			US-PATENT-CLASS-73-88.5			US-PATENT-CLASS-324-61
		US-PATENT-3,636,564			US-PATENT-3,621,285			US-PATENT-CLASS-73-304
N72-22093*	c 05	NASA-CASE-MSC-12324-1	N72-22201*	c 09	NASA-CASE-LEW-10387			US-PATENT-3,639,835
		US-PATENT-APPL-SN-63384			US-PATENT-APPL-SN-76899	N72-22443*	c 14	NASA-CASE-XGS-03736
		US-PATENT-CLASS-128-295			US-PATENT-CLASS-307-223B			US-PATENT-APPL-SN-749320
		US-PATENT-CLASS-4-110			US-PATENT-CLASS-307-241			US-PATENT-CLASS-252-300
		US-PATENT-CLASS-4-99			US-PATENT-CLASS-307-252J			US-PATENT-CLASS-96-90PC
		US-PATENT-3,602,923			US-PATENT-CLASS-307-252K			US-PATENT-3,639,250
N72-22107*	c 06	NASA-CASE-NPO-10862			US-PATENT-CLASS-307-284	N72-22444*	c 14	NASA-CASE-LAR-10523-1
		US-PATENT-APPL-SN-810815			US-PATENT-CLASS-307-304			US-PATENT-APPL-SN-32665
		US-PATENT-CLASS-260-877			US-PATENT-CLASS-307-317			US-PATENT-CLASS-250-203
		US-PATENT-3,639,510			US-PATENT-CLASS-328-106			US-PATENT-CLASS-350-16
N72-22127*	c 07	NASA-CASE-NPO-10303			US-PATENT-3,621,287			US-PATENT-CLASS-350-52
		US-PATENT-APPL-SN-848776	N72-22202*	c 09	NASA-CASE-ARC-10136-1			US-PATENT-CLASS-356-248
		US-PATENT-CLASS-343-771			US-PATENT-APPL-SN-865106			US-PATENT-3,647,276
		US-PATENT-CLASS-343-797			US-PATENT-CLASS-128-2.1A	N72-22445*	c 14	NASA-CASE-LAR-10184
		US-PATENT-CLASS-343-853			US-PATENT-CLASS-128-2R			US-PATENT-APPL-SN-16808
		US-PATENT-CLASS-343-912			US-PATENT-CLASS-307-231			US-PATENT-CLASS-33-174S
		US-PATENT-3,623,114			US-PATENT-CLASS-307-247			US-PATENT-CLASS-350-86
N72-22162*	c 08	NASA-CASE-NPO-11333			US-PATENT-CLASS-307-288			US-PATENT-3,620,595

ACCESSION NUMBER INDEX

N72-25171

N72-22482*	c 15	NASA-CASE-XLA-04897 US-PATENT-APPL-SN-880249 US-PATENT-CLASS-73-133 US-PATENT-3,613,457	N72-22772*	c 28	NASA-CASE-NPO-12072 US-PATENT-APPL-SN-82647 US-PATENT-CLASS-123-122AB US-PATENT-CLASS-137-81.5 US-PATENT-CLASS-261-145 US-PATENT-3,640,256	US-PATENT-CLASS-313-224 US-PATENT-CLASS-313-231 US-PATENT-CLASS-315-111 US-PATENT-CLASS-315-326 US-PATENT-CLASS-315-358 US-PATENT-CLASS-331-94.5 US-PATENT-3,617,804		
N72-22483*	c 15	NASA-CASE-XNP-09770-2 US-PATENT-APPL-SN-864039 US-PATENT-CLASS-209-349 US-PATENT-3,615,021	N72-22874*	c 31	NASA-CASE-NPO-10883 US-PATENT-APPL-SN-26573 US-PATENT-CLASS-136-89 US-PATENT-CLASS-312-257 US-PATENT-3,620,846	N72-25019*	c 03	NASA-CASE-NPO-10575 US-PATENT-APPL-SN-6615 US-PATENT-CLASS-156-250 US-PATENT-CLASS-156-510 US-PATENT-3,654,036
N72-22484*	c 15	NASA-CASE-LAR-10031 US-PATENT-APPL-SN-867851 US-PATENT-CLASS-62-55.5 US-PATENT-3,625,018	N72-23048*	c 03	NASA-CASE-NPO-11388 US-PATENT-APPL-SN-119282 US-PATENT-CLASS-310-2 US-PATENT-CLASS-321-2 US-PATENT-CLASS-322-2 US-PATENT-3,648,152	N72-25020*	c 03	NASA-CASE-GSC-11211-1 US-PATENT-APPL-SN-139528 US-PATENT-CLASS-235-92T US-PATENT-CLASS-307-141.8 US-PATENT-CLASS-320-48 US-PATENT-CLASS-324-29.5 US-PATENT-3,663,938
N72-22485*	c 15	NASA-CASE-MSC-13512-1 US-PATENT-APPL-SN-73932 US-PATENT-CLASS-74-501R US-PATENT-3,625,084	N72-23085*	c 05	NASA-CASE-LAR-10102-1 US-PATENT-APPL-SN-13266 US-PATENT-CLASS-224-25A US-PATENT-3,649,921	N72-25021*	c 03	NASA-CASE-NPO-11118 US-PATENT-APPL-SN-8650 US-PATENT-CLASS-214-90R US-PATENT-3,666,120
N72-22486*	c 15	NASA-CASE-KSC-10031 US-PATENT-APPL-SN-98773 US-PATENT-CLASS-220-5R US-PATENT-CLASS-317-101DH US-PATENT-CLASS-317-117 US-PATENT-CLASS-317-120 US-PATENT-3,639,809	N72-23171*	c 09	NASA-CASE-GSC-10221-1 US-PATENT-APPL-SN-779025 US-PATENT-CLASS-307-252N US-PATENT-CLASS-307-252R US-PATENT-CLASS-307-259 US-PATENT-CLASS-307-305 US-PATENT-3,621,294	N72-25119*	c 05	NASA-CASE-MSC-12397-1 US-PATENT-APPL-SN-785613 US-PATENT-CLASS-2-115 US-PATENT-CLASS-2-2.1 US-PATENT-3,660,851
N72-22487*	c 15	NASA-CASE-GSC-10303 US-PATENT-APPL-SN-802813 US-PATENT-CLASS-29-473.1 US-PATENT-3,619,896	N72-23172*	c 09	NASA-CASE-LAR-10320-1 US-PATENT-APPL-SN-18427 US-PATENT-CLASS-324-20R US-PATENT-3,649,907	N72-25120*	c 05	NASA-CASE-MSC-90153-2 US-PATENT-APPL-SN-844225 US-PATENT-CLASS-106-209 US-PATENT-CLASS-128-2.1 US-PATENT-CLASS-128-417 US-PATENT-CLASS-252-514 US-PATENT-CLASS-264-104 US-PATENT-3,665,064
N72-22488*	c 15	NASA-CASE-MSC-11849-1 US-PATENT-APPL-SN-6617 US-PATENT-CLASS-85-1 US-PATENT-3,623,394	N72-23173*	c 09	NASA-CASE-ERC-10267 US-PATENT-APPL-SN-41348 US-PATENT-CLASS-235-197 US-PATENT-CLASS-307-229 US-PATENT-CLASS-328-145 US-PATENT-3,648,043	N72-25121*	c 05	NASA-CASE-FRC-10029-2 US-PATENT-APPL-SN-78704 US-PATENT-CLASS-156-264 US-PATENT-CLASS-156-308 US-PATENT-CLASS-29-25.14 US-PATENT-CLASS-29-25.18 US-PATENT-CLASS-29-482 US-PATENT-CLASS-29-630A US-PATENT-3,662,441
N72-22490*	c 15	NASA-CASE-LEW-10856-1 US-PATENT-APPL-SN-3417 US-PATENT-CLASS-308-195 US-PATENT-3,620,585	N72-23215*	c 11	NASA-CASE-MFS-20710 US-PATENT-APPL-SN-114848 US-PATENT-CLASS-13-20 US-PATENT-CLASS-13-31 US-PATENT-3,647,924	N72-25122*	c 05	NASA-CASE-MSC-13609-1 US-PATENT-APPL-SN-94347 US-PATENT-CLASS-128-2N US-PATENT-3,662,744
N72-22491*	c 15	NASA-CASE-GSC-10913 US-PATENT-APPL-SN-889558 US-PATENT-CLASS-219-158 US-PATENT-CLASS-219-234 US-PATENT-CLASS-219-85 US-PATENT-CLASS-228-57 US-PATENT-CLASS-29-628 US-PATENT-3,621,194	N72-23457*	c 14	NASA-CASE-MSC-12297 US-PATENT-APPL-SN-792623 US-PATENT-CLASS-55-493 US-PATENT-CLASS-55-498 US-PATENT-CLASS-55-502 US-PATENT-CLASS-55-521 US-PATENT-3,650,095	N72-25146*	c 06	NASA-CASE-NPO-11322 US-PATENT-APPL-SN-87550 US-PATENT-CLASS-250-43.5R US-PATENT-CLASS-73-23.1 US-PATENT-3,666,942
N72-22492*	c 15	NASA-CASE-MFS-20482 US-PATENT-APPL-SN-6610 US-PATENT-CLASS-29-472.9 US-PATENT-CLASS-29-473.1 US-PATENT-3,602,979	N72-23497*	c 15	NASA-CASE-KSC-10242 US-PATENT-APPL-SN-73834 US-PATENT-CLASS-219-109 US-PATENT-CLASS-219-234 US-PATENT-CLASS-219-85 US-PATENT-CLASS-324-65R US-PATENT-3,621,193	N72-25147*	c 06	NASA-CASE-ARC-10325 US-PATENT-APPL-SN-63610 US-PATENT-CLASS-260-2.5FP US-PATENT-3,663,464
N72-22520* #	c 16	NASA-CASE-LAR-10815-1 US-PATENT-APPL-SN-233587	N72-23581*	c 18	NASA-CASE-GSC-10361-1 US-PATENT-APPL-SN-700040 US-PATENT-CLASS-106-84 US-PATENT-3,620,784	N72-25148*	c 06	NASA-CASE-MFS-13994-2 US-PATENT-APPL-SN-870689 US-PATENT-CLASS-260-348SC US-PATENT-3,660,434
N72-22530*	c 17	NASA-CASE-XLE-06461 US-PATENT-APPL-SN-853855 US-PATENT-CLASS-75-5B US-PATENT-3,623,861	N72-23695*	c 23	NASA-CASE-HQN-10541-3 US-PATENT-APPL-SN-822089 US-PATENT-CLASS-350-171 US-PATENT-3,606,522	N72-25149*	c 06	NASA-CASE-GSC-10565-1 US-PATENT-APPL-SN-822039 US-PATENT-CLASS-195-103.5R US-PATENT-CLASS-195-28N US-PATENT-CLASS-260-211.5 US-PATENT-3,660,240
N72-22535*	c 17	NASA-CASE-LEW-10874-1 US-PATENT-APPL-SN-68024 US-PATENT-CLASS-148-32.5 US-PATENT-CLASS-75-170 US-PATENT-3,620,718	N72-23809*	c 28	NASA-CASE-XNP-09461 US-PATENT-APPL-SN-670829 US-PATENT-CLASS-239-418 US-PATENT-CLASS-239-433 US-PATENT-CLASS-239-543 US-PATENT-3,650,474	N72-25150*	c 06	NASA-CASE-XLE-06774-2 US-PATENT-APPL-SN-5114 US-PATENT-CLASS-117-132 US-PATENT-CLASS-117-161 US-PATENT-CLASS-260-2.5 US-PATENT-CLASS-260-92.1 US-PATENT-3,666,741
N72-22566*	c 18	NASA-CASE-MFS-20011 US-PATENT-APPL-SN-813338 US-PATENT-CLASS-106-286 US-PATENT-CLASS-106-288B US-PATENT-CLASS-106-84 US-PATENT-3,620,791	N72-23810*	c 28	NASA-CASE-NPO-11458 US-PATENT-APPL-SN-36926 US-PATENT-CLASS-60-266 US-PATENT-CLASS-60-271 US-PATENT-3,648,461	N72-25151*	c 06	NASA-CASE-MFS-20979 US-PATENT-APPL-SN-100774 US-PATENT-CLASS-260-18S US-PATENT-CLASS-260-448.2D US-PATENT-CLASS-260-46.5G US-PATENT-CLASS-260-46.5G US-PATENT-CLASS-260-46.5P US-PATENT-3,666,718
N72-22567*	c 18	NASA-CASE-NPO-11091 US-PATENT-APPL-SN-860781 US-PATENT-CLASS-260-2.1E US-PATENT-3,629,161	N72-24037*	c 03	NASA-CASE-GSC-11514-1 US-PATENT-APPL-SN-820453 US-PATENT-CLASS-117-201 US-PATENT-CLASS-136-89 US-PATENT-3,653,970	N72-25152*	c 06	NASA-CASE-NPO-10863-2 US-PATENT-APPL-SN-145026 US-PATENT-CLASS-260-92.1 US-PATENT-3,663,521
N72-22619*	c 21	NASA-CASE-ARC-10179-1 US-PATENT-APPL-SN-835058 US-PATENT-CLASS-244-114 US-PATENT-CLASS-340-26 US-PATENT-3,624,598	N72-24477*	c 14	NASA-CASE-ARC-10138-1 US-PATENT-APPL-SN-774733 US-PATENT-CLASS-250-83.3H US-PATENT-CLASS-317-247 US-PATENT-CLASS-324-61R US-PATENT-CLASS-73-355R US-PATENT-3,657,644	N72-25170*	c 07	NASA-CASE-LAR-10513-1 US-PATENT-APPL-SN-64723 US-PATENT-CLASS-333-7 US-PATENT-CLASS-333-81R US-PATENT-CLASS-333-98P US-PATENT-CLASS-333-98S US-PATENT-3,649,935
N72-22673*	c 23	NASA-CASE-XER-07896-2 US-PATENT-APPL-SN-36819 US-PATENT-CLASS-350-310 US-PATENT-3,620,606	N72-24522*	c 15	NASA-CASE-NPO-11036 US-PATENT-APPL-SN-41346 US-PATENT-CLASS-264-92 US-PATENT-3,658,974	N72-25171*	c 07	NASA-CASE-MFS-21042
N72-22769*	c 28	NASA-CASE-ARC-10106-1 US-PATENT-APPL-SN-812998 US-PATENT-CLASS-244-3.22 US-PATENT-3,612,442	N72-24753*	c 25	NASA-CASE-XNP-04167-2 US-PATENT-APPL-SN-866442 US-PATENT-CLASS-313-186 US-PATENT-CLASS-313-212			
N72-22770*	c 28	NASA-CASE-LEW-10770-1 US-PATENT-APPL-SN-880246 US-PATENT-CLASS-60-202 US-PATENT-3,613,370						
N72-22771*	c 28	NASA-CASE-LEW-10835-1 US-PATENT-APPL-SN-67815 US-PATENT-CLASS-60-202 US-PATENT-3,620,018						

		US-PATENT-APPL-SN-86417			US-PATENT-CLASS-321-18			US-PATENT-CLASS-250-209
		US-PATENT-CLASS-102-34.4			US-PATENT-CLASS-321-19			US-PATENT-CLASS-250-226
		US-PATENT-CLASS-325-114			US-PATENT-CLASS-321-2			US-PATENT-CLASS-250-83.3UV
		US-PATENT-CLASS-325-4			US-PATENT-CLASS-321-45ER			US-PATENT-CLASS-350-203
		US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-321-45R			US-PATENT-3,657,549
		US-PATENT-3,667,044			US-PATENT-3,663,940			NASA-CASE-ERC-10292
N72-25172*	c 07	NASA-CASE-NPO-11358	N72-25253*	c 09	NASA-CASE-GSC-11126-1	N72-25410*	c 14	NASA-CASE-ERC-10292
		US-PATENT-APPL-SN-116786			US-PATENT-APPL-SN-98640			US-PATENT-APPL-SN-45519
		US-PATENT-CLASS-179-15BV			US-PATENT-CLASS-321-2			US-PATENT-CLASS-350-160R
		US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-321-47			US-PATENT-CLASS-73-515
		US-PATENT-3,665,417			US-PATENT-CLASS-331-113A			US-PATENT-CLASS-73-521
N72-25173*	c 07	NASA-CASE-ERC-10324			US-PATENT-3,663,941	N72-25411*	c 14	NASA-CASE-ERC-10292
		US-PATENT-APPL-SN-54270	N72-25254*	c 09	NASA-CASE-NPO-10760			US-PATENT-APPL-SN-94374
		US-PATENT-CLASS-178-69.5			US-PATENT-CLASS-321-2			US-PATENT-CLASS-116-114AH
		US-PATENT-CLASS-325-141			US-PATENT-CLASS-321-45R			US-PATENT-CLASS-73-12
		US-PATENT-CLASS-325-302			US-PATENT-CLASS-331-113A			US-PATENT-CLASS-73-492
		US-PATENT-CLASS-325-325			US-PATENT-3,663,944			US-PATENT-3,656,352
		US-PATENT-CLASS-325-38	N72-25255*	c 09	NASA-CASE-LAR-10620-1	N72-25412*	c 14	NASA-CASE-MFS-15063
		US-PATENT-CLASS-325-51			US-PATENT-APPL-SN-125979			US-PATENT-APPL-SN-51477
		US-PATENT-CLASS-325-55			US-PATENT-CLASS-310-10			US-PATENT-CLASS-178-DIG.8
		US-PATENT-CLASS-325-58			US-PATENT-CLASS-310-15			US-PATENT-CLASS-178-6.8
		US-PATENT-CLASS-325-64			US-PATENT-3,663,843			US-PATENT-CLASS-340-227R
		US-PATENT-CLASS-340-167	N72-25256*	c 09	NASA-CASE-XLA-02609	N72-25413*	c 14	NASA-CASE-GSC-10879-1
		US-PATENT-3,665,313			US-PATENT-APPL-SN-41347			US-PATENT-APPL-SN-889420
N72-25174*	c 07	NASA-CASE-NPO-11264			US-PATENT-CLASS-333-79			US-PATENT-CLASS-195-127
		US-PATENT-APPL-SN-36531			US-PATENT-CLASS-339-143R			US-PATENT-3,666,631
		US-PATENT-CLASS-343-762			US-PATENT-CLASS-339-147R	N72-25414*	c 14	NASA-CASE-NPO-11311
		US-PATENT-CLASS-343-777			US-PATENT-3,663,929			US-PATENT-APPL-SN-57252
		US-PATENT-CLASS-343-779	N72-25257*	c 09	NASA-CASE-MSC-12395			US-PATENT-CLASS-178-7.92
		US-PATENT-CLASS-343-786			US-PATENT-APPL-SN-134573			US-PATENT-CLASS-350-175FS
		US-PATENT-CLASS-343-853			US-PATENT-CLASS-307-233			US-PATENT-3,663,753
		US-PATENT-3,665,481			US-PATENT-CLASS-324-186	N72-25428* #	c 14	NASA-CASE-HQN-10756-1
N72-25206*	c 08	NASA-CASE-KSC-10397			US-PATENT-CLASS-324-78D			US-PATENT-APPL-SN-236052
		US-PATENT-APPL-SN-25488			US-PATENT-CLASS-328-136	N72-25447*	c 15	NASA-CASE-LEW-10489-1
		US-PATENT-CLASS-235-154			US-PATENT-CLASS-328-140			US-PATENT-APPL-SN-889682
		US-PATENT-CLASS-340-347DA			US-PATENT-3,663,885			US-PATENT-CLASS-117-107
		US-PATENT-3,648,275	N72-25258*	c 09	NASA-CASE-LAR-10253-1			US-PATENT-CLASS-117-211
N72-25207*	c 08	NASA-CASE-NPO-11161			US-PATENT-APPL-SN-99175			US-PATENT-CLASS-117-217
		US-PATENT-APPL-SN-889374			US-PATENT-CLASS-307-88.3			US-PATENT-CLASS-117-62
		US-PATENT-CLASS-340-146.1			US-PATENT-CLASS-330-4.5			US-PATENT-CLASS-117-93.16D
		US-PATENT-CLASS-340-172.5			US-PATENT-3,663,886			US-PATENT-CLASS-29-599
		US-PATENT-3,648,256	N72-25259*	c 09	NASA-CASE-GSC-10695-1			US-PATENT-3,649,356
N72-25208*	c 08	NASA-CASE-NPO-11338			US-PATENT-APPL-SN-889422	N72-25448*	c 15	NASA-CASE-LEW-10450-1
		US-PATENT-APPL-SN-89212			US-PATENT-CLASS-117-200			US-PATENT-APPL-SN-880271
		US-PATENT-CLASS-178-50			US-PATENT-CLASS-136-89			US-PATENT-CLASS-75-0.58B
		US-PATENT-CLASS-179-15BC			US-PATENT-CLASS-29-198			US-PATENT-CLASS-75-206
		US-PATENT-CLASS-179-15FD			US-PATENT-3,664,874			US-PATENT-CLASS-75-213
		US-PATENT-CLASS-325-62			NASA-CASE-NPO-11283	N72-25450*	c 15	NASA-CASE-NPO-11202
		US-PATENT-CLASS-332-21	N72-25260*	c 09	US-PATENT-APPL-SN-118270			US-PATENT-APPL-SN-66004
		US-PATENT-3,659,053			US-PATENT-CLASS-310-4			US-PATENT-CLASS-285-DIG.21
N72-25209*	c 08	NASA-CASE-NPO-11194			US-PATENT-3,663,839			US-PATENT-CLASS-285-3
		US-PATENT-APPL-SN-63532	N72-25261*	c 09	NASA-CASE-ERC-10224			US-PATENT-CLASS-285-316
		US-PATENT-CLASS-343-12R			US-PATENT-APPL-SN-868775			US-PATENT-CLASS-285-33
		US-PATENT-CLASS-343-14			US-PATENT-CLASS-29-492			US-PATENT-CLASS-339-45M
		US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-29-497			US-PATENT-CLASS-339-91B
		US-PATENT-3,659,292			US-PATENT-CLASS-29-498			US-PATENT-3,656,781
N72-25210*	c 08	NASA-CASE-NPO-10636			US-PATENT-CLASS-29-502			NASA-CASE-NPO-10606
		US-PATENT-APPL-SN-77221			US-PATENT-CLASS-29-589	N72-25451*	c 15	US-PATENT-APPL-SN-8636
		US-PATENT-CLASS-235-152			US-PATENT-CLASS-29-628			US-PATENT-CLASS-251-360
		US-PATENT-CLASS-340-146.1AL			US-PATENT-3,665,589			US-PATENT-3,658,295
		US-PATENT-3,662,337	N72-25262*	c 09	NASA-CASE-NPO-11078	N72-25452*	c 15	NASA-CASE-LEW-10965-1
N72-25247*	c 09	NASA-CASE-LAR-10163-1			US-PATENT-APPL-SN-82280			US-PATENT-APPL-SN-876588
		US-PATENT-APPL-SN-73310			US-PATENT-CLASS-307-103			US-PATENT-CLASS-117-124C
		US-PATENT-CLASS-343-708			US-PATENT-CLASS-307-83			US-PATENT-CLASS-117-152C
		US-PATENT-CLASS-343-771			US-PATENT-CLASS-323-48			US-PATENT-CLASS-117-16R
		US-PATENT-CLASS-343-873			US-PATENT-CLASS-323-82			US-PATENT-CLASS-117-37
		US-PATENT-3,653,052			US-PATENT-3,663,828			US-PATENT-CLASS-117-47R
N72-25248*	c 09	NASA-CASE-NPO-11342	N72-25284*	c 11	NASA-CASE-LAR-10507-1			US-PATENT-CLASS-117-62
		US-PATENT-APPL-SN-89209			US-PATENT-APPL-SN-874177			US-PATENT-CLASS-117-93.3
		US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-195-127			US-PATENT-CLASS-204-157.18AG
		US-PATENT-CLASS-340-324A			US-PATENT-3,649,462			US-PATENT-CLASS-204-49
		US-PATENT-3,648,250	N72-25287*	c 11	NASA-CASE-LAR-10546-1			US-PATENT-CLASS-250-65F
N72-25249*	c 09	NASA-CASE-GSC-10656-1			US-PATENT-APPL-SN-32664			US-PATENT-CLASS-96-36.2
		US-PATENT-APPL-SN-59969			US-PATENT-CLASS-287-54A			US-PATENT-3,658,569
		US-PATENT-CLASS-321-2			US-PATENT-CLASS-52-648	N72-25453*	c 15	NASA-CASE-KSC-10513
		US-PATENT-CLASS-323-DIG.1			US-PATENT-CLASS-52-655			US-PATENT-APPL-SN-61535
		US-PATENT-CLASS-323-17			US-PATENT-3,665,670			US-PATENT-CLASS-187-1
		US-PATENT-CLASS-323-22T	N72-25288*	c 11	NASA-CASE-MFS-20434			US-PATENT-CLASS-187-20
		US-PATENT-3,621,372			US-PATENT-APPL-SN-55534			US-PATENT-CLASS-187-95
N72-25250*	c 09	NASA-CASE-KSC-10565			US-PATENT-CLASS-73-140			US-PATENT-CLASS-254-190
		US-PATENT-APPL-SN-98517			US-PATENT-CLASS-73-161			US-PATENT-3,666,051
		US-PATENT-CLASS-315-135			US-PATENT-3,665,758	N72-25454*	c 15	NASA-CASE-MSC-12233-1
		US-PATENT-CLASS-315-349			NASA-CASE-NPO-11556			US-PATENT-APPL-SN-73422
		US-PATENT-CLASS-330-2	N72-25292*	c 12	US-PATENT-APPL-SN-82648			US-PATENT-CLASS-52-169
		US-PATENT-CLASS-330-59			US-PATENT-CLASS-210-188			US-PATENT-CLASS-52-173
		US-PATENT-CLASS-340-332			US-PATENT-CLASS-310-11			US-PATENT-CLASS-52-594
		US-PATENT-3,659,148			US-PATENT-3,648,083			US-PATENT-3,665,669
N72-25251*	c 09	NASA-CASE-ERC-10048	N72-25323*	c 13	NASA-CASE-NPO-11373	N72-25455*	c 15	NASA-CASE-NPO-11095
		US-PATENT-APPL-SN-10329			US-PATENT-APPL-SN-81095			US-PATENT-APPL-SN-19585
		US-PATENT-CLASS-307-261			US-PATENT-CLASS-73-421.5R			US-PATENT-CLASS-239-424
		US-PATENT-CLASS-321-18			US-PATENT-CLASS-73-422GC			US-PATENT-CLASS-60-258
		US-PATENT-CLASS-321-2			US-PATENT-CLASS-73-422TC			US-PATENT-CLASS-60-39.74A
		US-PATENT-3,659,184			US-PATENT-3,662,604			US-PATENT-3,662,547
N72-25252*	c 09	NASA-CASE-ERC-10268	N72-25409*	c 14	NASA-CASE-ERC-10174	N72-25456*	c 15	NASA-CASE-NPO-11222
		US-PATENT-APPL-SN-39342			US-PATENT-APPL-SN-39344			
		US-PATENT-CLASS-321-11						

N72-28762

F-29

		US-PATENT-APPL-SN-796685				US-PATENT-3,690,291			US-PATENT-CLASS-325-480
		US-PATENT-CLASS-106-39	N72-32688*	c 25	.....	NASA-CASE-MFS-20589			US-PATENT-3,700,812
		US-PATENT-CLASS-106-46				US-PATENT-APPL-SN-103077	N73-12264*	c 11	NASA-CASE-LAR-10348-1
		US-PATENT-CLASS-117-212				US-PATENT-CLASS-313-231			US-PATENT-APPL-SN-70032
		US-PATENT-CLASS-117-217				US-PATENT-CLASS-315-111			US-PATENT-CLASS-73-147
		US-PATENT-CLASS-29-25.42				US-PATENT-3,693,002			US-PATENT-3,695,101
N72-29172*	c 09	US-PATENT-3,649,353	N72-33072*	c 04	.....	NASA-CASE-ERC-10338	N73-12265*	c 11	NASA-CASE-NPO-10890
		NASA-CASE-LAR-10511-1				US-PATENT-APPL-SN-50339			US-PATENT-APPL-SN-99903
		US-PATENT-APPL-SN-41345				US-PATENT-CLASS-23-109			US-PATENT-CLASS-137-559
		US-PATENT-CLASS-333-24R				US-PATENT-3,679,360			US-PATENT-CLASS-219-203
		US-PATENT-CLASS-333-98P	N72-33096*	c 05	.....	NASA-CASE-MSC-13540-1			US-PATENT-CLASS-219-522
		US-PATENT-CLASS-333-98R				US-PATENT-APPL-SN-68023			US-PATENT-CLASS-52-171
		US-PATENT-3,676,809				US-PATENT-CLASS-99-80PS			US-PATENT-3,696,833
N72-29464*	c 14	NASA-CASE-ARC-10017-1	N72-33146*	c 07	.....	US-PATENT-3,692,533	N73-12444*	c 14	NASA-CASE-GSC-10903-1
		US-PATENT-APPL-SN-55536				NASA-CASE-MSC-12259-2			US-PATENT-APPL-SN-114846
		US-PATENT-CLASS-250-41.9D				US-PATENT-APPL-SN-61895			US-PATENT-CLASS-250-41.9G
		US-PATENT-CLASS-250-71.5R				US-PATENT-APPL-SN-853763			US-PATENT-CLASS-250-41.9S
		US-PATENT-CLASS-313-356				US-PATENT-CLASS-325-373			US-PATENT-CLASS-73-421.5
		US-PATENT-3,676,674				US-PATENT-3,694,753			US-PATENT-3,700,893
N72-29488*	c 15	NASA-CASE-XLE-10326-2	N72-33172*	c 08	.....	NASA-CASE-NPO-11630	N73-12445*	c 14	NASA-CASE-LAR-10728-1
		US-PATENT-APPL-SN-54540				US-PATENT-APPL-SN-143078			US-PATENT-APPL-SN-112998
		US-PATENT-APPL-SN-723465				US-PATENT-CLASS-179-15.55R			US-PATENT-CLASS-250-83.3H
		US-PATENT-CLASS-277-25				US-PATENT-3,694,581			US-PATENT-CLASS-250-83.3R
		US-PATENT-CLASS-277-27	N72-33204*	c 09	.....	NASA-CASE-NPO-11129			US-PATENT-CLASS-250-83R
		US-PATENT-CLASS-277-74				US-PATENT-APPL-SN-883523			US-PATENT-3,700,897
		US-PATENT-3,675,935				US-PATENT-CLASS-307-262	N73-12446*	c 14	NASA-CASE-NPO-11239
N72-31140*	c 06	NASA-CASE-MSC-13335-1				US-PATENT-CLASS-307-295			US-PATENT-APPL-SN-89211
		US-PATENT-APPL-SN-55806				US-PATENT-CLASS-328-155			US-PATENT-CLASS-356-106
		US-PATENT-CLASS-55-16				US-PATENT-CLASS-328-24			US-PATENT-CLASS-356-114
		US-PATENT-CLASS-55-55				US-PATENT-3,621,406			US-PATENT-3,700,334
		US-PATENT-3,678,654	N72-33205*	c 09	.....	NASA-CASE-GSC-10835-1	N73-12447*	c 14	NASA-CASE-NPO-11493
N72-31141*	c 06	NASA-CASE-ARC-10308-1				US-PATENT-APPL-SN-116778			US-PATENT-APPL-SN-151413
		US-PATENT-APPL-SN-134568				US-PATENT-CLASS-317-101A			US-PATENT-CLASS-136-224
		US-PATENT-CLASS-250-43.5R				US-PATENT-CLASS-317-235			US-PATENT-3,700,503
		US-PATENT-CLASS-356-51				US-PATENT-CLASS-317-235A	N73-12486*	c 15	NASA-CASE-KSC-10615
		US-PATENT-3,679,899				US-PATENT-CLASS-317-235AJ			US-PATENT-APPL-SN-103078
N72-31226*	c 08	NASA-CASE-NPO-11016	N72-33230*	c 10	.....	US-PATENT-3,694,700			US-PATENT-CLASS-244-15B
		US-PATENT-APPL-SN-889584				NASA-CASE-GSC-11340-1			US-PATENT-CLASS-244-135
		US-PATENT-CLASS-235-150.1				US-PATENT-APPL-SN-107379			US-PATENT-CLASS-62-45
		US-PATENT-CLASS-235-151.1				US-PATENT-CLASS-330-12			US-PATENT-CLASS-62-7
		US-PATENT-CLASS-235-92MT				US-PATENT-CLASS-331-115			US-PATENT-3

			US-PATENT-CLASS-235-181				US-PATENT-CLASS-60-37				US-PATENT-CLASS-174-52S
			US-PATENT-CLASS-325-325				US-PATENT-3,702,532				US-PATENT-CLASS-29-589
			US-PATENT-CLASS-340-146.1	N73-13489*	c 16		NASA-CASE-HQN-10654-1				US-PATENT-CLASS-29-591
			US-PATENT-3,701,894				US-PATENT-APPL-SN-182978				US-PATENT-CLASS-317-234A
N73-13187*	c 08		NASA-CASE-GSC-10975-1				US-PATENT-CLASS-324-5R				US-PATENT-CLASS-317-234G
			US-PATENT-APPL-SN-100996				US-PATENT-CLASS-331-94				US-PATENT-3,705,255
			US-PATENT-CLASS-340-172.5				US-PATENT-3,702,972	N73-14584*	c 18		NASA-CASE-LAR-10894-1
			US-PATENT-3,702,463	N73-13562*	c 18		NASA-CASE-ARC-10196-1				US-PATENT-APPL-SN-189375
N73-13208*	c 09		NASA-CASE-LEW-11192-1				US-PATENT-APPL-SN-115082				US-PATENT-CLASS-106-39R
			US-PATENT-APPL-SN-198285				US-PATENT-CLASS-260-2.5F				US-PATENT-CLASS-106-55
			US-PATENT-CLASS-315-3.5				US-PATENT-3,702,841				US-PATENT-CLASS-106-58
			US-PATENT-CLASS-315-5.38	N73-13643*	c 21		NASA-CASE-HQN-10703				US-PATENT-CLASS-106-63
			US-PATENT-3,702,951				US-PATENT-APPL-SN-156724				US-PATENT-CLASS-264-DIG.36
N73-13209*	c 09		NASA-CASE-XLA-05099				US-PATENT-CLASS-340-27NA				US-PATENT-CLASS-264-65
			US-PATENT-APPL-SN-98798				US-PATENT-CLASS-340-33				US-PATENT-3,706,583
			US-PATENT-CLASS-235-152				US-PATENT-CLASS-340-97	N73-14692*	c 21		NASA-CASE-ERC-10392
			US-PATENT-CLASS-307-207				US-PATENT-CLASS-343-112CA				US-PATENT-APPL-SN-36534
			US-PATENT-CLASS-307-215				US-PATENT-3,699,511				US-PATENT-CLASS-340-27AT
N73-13235*	c 10		US-PATENT-3,700,868	N73-13644*	c 21		NASA-CASE-NPO-11481				US-PATENT-3,706,970
			NASA-CASE-KSC-10003				US-PATENT-APPL-SN-134571	N73-14853*	c 31		NASA-CASE-GSC-10590-1
			US-PATENT-APPL-SN-60883				US-PATENT-CLASS-179-100.2A				US-PATENT-APPL-SN-130353
			US-PATENT-CLASS-178-DIG.6				US-PATENT-CLASS-340-174.1R				US-PATENT-CLASS-102-49.5
			US-PATENT-CLASS-178-6				US-PATENT-CLASS-346-138				US-PATENT-3,706,281
			US-PATENT-CLASS-307-242				US-PATENT-CLASS-346-74MD	N73-14854*	c 31		NASA-CASE-MSC-12433
			US-PATENT-CLASS-307-259				US-PATENT-CLASS-74-5.22				US-PATENT-APPL-SN-103551
			US-PATENT-CLASS-328-104				US-PATENT-3,697,968				US-PATENT-CLASS-244-155
			US-PATENT-CLASS-328-154	N73-13660*	c 23		NASA-CASE-MFS-20809				US-PATENT-3,702,688
			US-PATENT-3,702,898				US-PATENT-APPL-SN-173185	N73-14855*	c 31		NASA-CASE-NPO-10680
N73-13257*	c 11		NASA-CASE-LAR-10574-1				US-PATENT-CLASS-315-169R				US-PATENT-APPL-SN-104048
			US-PATENT-APPL-SN-66206				US-PATENT-CLASS-315-169TV				US-PATENT-CLASS-74-2
			US-PATENT-CLASS-244-1SS				US-PATENT-CLASS-317-101A				US-PATENT-3,706,230
			US-PATENT-3,698,659	N73-13661*	c 23		US-PATENT-3,700,961	N73-15235*	c 09		NASA-CASE-NPO-12106
N73-13415*	c 14		NASA-CASE-LAR-10855-1				NASA-CASE-MSC-12404-1				US-PATENT-APPL-SN-175881
			US-PATENT-APPL-SN-166541				US-PATENT-APPL-SN-142662				US-PATENT-CLASS-317-234V
			US-PATENT-CLASS-73-147				US-PATENT-CLASS-356-106S				US-PATENT-CLASS-317-235AG
			US-PATENT-CLASS-73-182				US-PATENT-3,702,735				US-PATENT-CLASS-317-235K
			US-PATENT-CLASS-73-189	N73-13662*	c 23		NASA-CASE-MFS-20243				US-PATENT-CLASS-331-107G
			US-PATENT-CLASS-73-212				US-PATENT-APPL-SN-59894				US-PATENT-CLASS-331-177R
			US-PATENT-3,699,811				US-PATENT-CLASS-250-51.5				US-PATENT-CLASS-331-90
N73-13416*	c 14		NASA-CASE-GSC-11302-1				US-PATENT-CLASS-250-52				US-PATENT-3,694,771
			US-PATENT-APPL-SN-168650				US-PATENT-3,702,933	N73-16106*	c 06		NASA-CASE-LAR-10668-1
			US-PATENT-CLASS-73-71.6	N73-13773*	c 28		NASA-CASE-LEW-10374-1				US-PATENT-APPL-SN-172459
			US-PATENT-3,699,807				US-PATENT-APPL-SN-107380				US-PATENT-CLASS-23-232E
N73-13417*	c 14		NASA-CASE-XLE-05230-2				US-PATENT-CLASS-137-81.5				US-PATENT-CLASS-23-232R
			US-PATENT-APPL-SN-147099				US-PATENT-CLASS-60-211				US-PATENT-CLASS-23-254E
			US-PATENT-APPL-SN-877717				US-PATENT-CLASS-60-240				US-PATENT-CLASS-23-254R
			US-PATENT-CLASS-136-233				US-PATENT-CLASS-60-243				US-PATENT-CLASS-250-71R
			US-PATENT-CLASS-29-573				US-PATENT-3,702,536				US-PATENT-CLASS-250-83.3UV
			US-PATENT-CLASS-29-624				NASA-CASE-LAR-10549-1				US-PATENT-3,709,663
			US-PATENT-3,699,645	N73-13898*	c 31		US-PATENT-APPL-SN-108824	N73-16121*	c 07		NASA-CASE-NPO-11572
N73-13418*	c 14		NASA-CASE-MFS-14216				US-PATENT-CLASS-244-139				US-PATENT-APPL-SN-125234
			US-PATENT-APPL-SN-50208				US-PATENT-CLASS-60-291				US-PATENT-CLASS-179-15AN
			US-PATENT-CLASS-137-487.5				US-PATENT-3,700,192				US-PATENT-CLASS-179-15BC
			US-PATENT-CLASS-137-81	N73-13921*	c 32		NASA-CASE-MSC-12233-2				US-PATENT-CLASS-325-60
			US-PATENT-CLASS-92-49				US-PATENT-APPL-SN-107298				US-PATENT-CLASS-343-200
			US-PATENT-3,698,412				US-PATENT-CLASS-229-DIG.11				US-PATENT-3,710,257
N73-13420*	c 14		NASA-CASE-NPO-11418-1				US-PATENT-CLASS-52-284	N73-16205*	c 10		NASA-CASE-NPO-11282
			US-PATENT-APPL-SN-193947				US-PATENT-CLASS-52-594				US-PATENT-APPL-SN-101354
			US-PATENT-CLASS-333-81B				US-PATENT-3,702,520				US-PATENT-CLASS-325-346
			US-PATENT-CLASS-333-98R	N73-14130*	c 07		NASA-CASE-NPO-11661				US-PATENT-CLASS-325-419
			US-PATENT-3,702,979				US-PATENT-APPL-SN-200682				US-PATENT-3,710,261
N73-13435* #	c 14		NASA-CASE-GSC-11533-1				US-PATENT-CLASS-343-782	N73-16206*	c 10		NASA-CASE-ERC-10285
			US-PATENT-APPL-SN-305013				US-PATENT-CLASS-343-837				US-PATENT-APPL-SN-55333
N73-13462*	c 15		NASA-CASE-NPO-11479				US-PATENT-CLASS-343-915				US-PATENT-CLASS-331-45
			US-PATENT-APPL-SN-170440				US-PATENT-3,705,406				US-PATENT-CLASS-343-100R
			US-PATENT-CLASS-137-608				NASA-CASE-ARC-10467-1				US-PATENT-CLASS-343-100SA
			US-PATENT-CLASS-137-81.5	N73-14214*	c 09		US-PATENT-APPL-SN-212028				US-PATENT-CLASS-343-853
			US-PATENT-CLASS-138-45				US-PATENT-CLASS-250-205				US-PATENT-3,710,329
			US-PATENT-CLASS-251-122				US-PATENT-CLASS-250-211J	N73-16483*	c 14		NASA-CASE-ERC-10226-1
			US-PATENT-3,700,005				US-PATENT-CLASS-250-217SS				US-PATENT-APPL-SN-124909
N73-13463*	c 15		NASA-CASE-MFS-20317				US-PATENT-CLASS-307-310				US-PATENT-APPL-SN-808822
			US-PATENT-APPL-SN-67730				US-PATENT-CLASS-307-311				US-PATENT-CLASS-250-209
			US-PATENT-CLASS-173-131				US-PATENT-3,705,316				US-PATENT-CLASS-250-215
			US-PATENT-CLASS-72-447	N73-14427*	c 14		NASA-CASE-NPO-10758				US-PATENT-CLASS-250-217
			US-PATENT-CLASS-72-476				US-PATENT-APPL-SN-81096				US-PATENT-CLASS-315-153
			US-PATENT-3,699,799				US-PATENT-CLASS-352-169				US-PATENT-CLASS-340-25
N73-13464*	c 15		NASA-CASE-NPO-10812				US-PATENT-CLASS-95-12.5				US-PATENT-CLASS-340-27R
			US-PATENT-APPL-SN-129073				US-PATENT-CLASS-95-59				US-PATENT-3,708,671
			US-PATENT-CLASS-425-113				US-PATENT-3,704,659	N73-16484*	c 14		NASA-CASE-LAR-10739-1
			US-PATENT-CLASS-425-133	N73-14428*	c 14		NASA-CASE-NPO-10764-1				US-PATENT-APPL-SN-134567
			US-PATENT-CLASS-425-176				US-PATENT-APPL-SN-836280				US-PATENT-CLASS-250-217F
			US-PATENT-CLASS-72-258				US-PATENT-CLASS-252-408				US-PATENT-CLASS-340-228S
			US-PATENT-3,698,848				US-PATENT-3,700,603				US-PATENT-CLASS-340-418
N73-13465*	c 15		NASA-CASE-LEW-10805-1	N73-14429*	c 14		NASA-CASE-NPO-11387				US-PATENT-3,708,674
			US-PATENT-APPL-SN-29917				US-PATENT-APPL-SN-142719	N73-16536*	c 16		NASA-CASE-LAR-10311-1
			US-PATENT-CLASS-148-11.5R				US-PATENT-CLASS-73-57				US-PATENT-APPL-SN-31702
			US-PATENT-3,702,791				US-PATENT-CLASS-73-60				US-PATENT-CLASS-250-199
N73-13466*	c 15		NASA-CASE-MFS-20944				US-PATENT-3,706,221				US-PATENT-CLASS-340-171
			US-PATENT-APPL-SN-148756	N73-14468*	c 15		NASA-CASE-LAR-10103-1				US-PATENT-CLASS-350-293
			US-PATENT-CLASS-91-363A				US-PATENT-APPL-SN-103230				US-PATENT-3,710,122
			US-PATENT-CLASS-91-448				US-PATENT-CLASS-219-101	N73-16764*	c 27		NASA-CASE-NPO-12015
			US-PATENT-3,702,575				US-PATENT-CLASS-219-119				US-PATENT-APPL-SN-74862
N73-13467*	c 15		NASA-CASE-NPO-11369				US-PATENT-CLASS-29-203V				US-PATENT-CLASS-149-19
			US-PATENT-APPL-SN-129072				US-PATENT-3,705,288				US-PATENT-CLASS-149-36
			US-PATENT-CLASS-60-1	N73-14469*	c 15		NASA-CASE-GSC-10791-1				US-PATENT-3,708,359
			US-PATENT-CLASS-60-23				US-PATENT-APPL-SN-84289	N73-16918*	c 33		NASA-CASE-MSC-15567-1

			US-PATENT-APPL-SN-87551			US-PATENT-CLASS-340-163			US-PATENT-CLASS-128-206F
			US-PATENT-CLASS-204-324			US-PATENT-3,715,723			US-PATENT-CLASS-324-78E
			US-PATENT-CLASS-204-325			NASA-CASE-LAR-10128-1			US-PATENT-3,729,676
			US-PATENT-CLASS-204-328			US-PATENT-APPL-SN-84002			NASA-CASE-NPO-11417
			US-PATENT-3,708,419			US-PATENT-CLASS-235-92FQ			US-PATENT-APPL-SN-120241
N73-19004*	c 02		NASA-CASE-ERC-10439			US-PATENT-CLASS-235-92R			US-PATENT-CLASS-417-391
			US-PATENT-APPL-SN-54271			US-PATENT-CLASS-235-92T			US-PATENT-CLASS-60-25
			US-PATENT-CLASS-244-17.13			US-PATENT-CLASS-340-347AD			US-PATENT-3,732,040
			US-PATENT-CLASS-244-77D			US-PATENT-3,714,645			NASA-CASE-LEW-10920-1
			US-PATENT-CLASS-318-489			NASA-CASE-ARC-10264-1			US-PATENT-APPL-SN-106424
			US-PATENT-3,711,042			US-PATENT-APPL-SN-80368			US-PATENT-CLASS-204-192
N73-19234*	c 09		NASA-CASE-GSC-11013-1			US-PATENT-CLASS-328-167			US-PATENT-3,732,158
			US-PATENT-APPL-SN-200717			US-PATENT-CLASS-330-109			NASA-CASE-NPO-11880
			US-PATENT-CLASS-343-754			US-PATENT-CLASS-330-86			US-PATENT-APPL-SN-209535
			US-PATENT-CLASS-343-839			US-PATENT-3,714,588			US-PATENT-CLASS-313-DIG.8
			US-PATENT-CLASS-343-854			NASA-CASE-MFS-21433			US-PATENT-CLASS-313-231
			US-PATENT-CLASS-343-895			US-PATENT-APPL-SN-236281			US-PATENT-CLASS-313-63
			US-PATENT-3,713,163			US-PATENT-CLASS-307-230			US-PATENT-CLASS-60-202
N73-19235*	c 09		NASA-CASE-MFS-20407			US-PATENT-CLASS-307-304			US-PATENT-3,313,204
			US-PATENT-APPL-SN-116777			US-PATENT-CLASS-330-20			US-PATENT-3,728,861
			US-PATENT-CLASS-317-235AM			US-PATENT-CLASS-330-22			NASA-CASE-NPO-11559
			US-PATENT-CLASS-317-235N			US-PATENT-CLASS-330-30D			US-PATENT-APPL-SN-147996
			US-PATENT-CLASS-317-235R			US-PATENT-CLASS-330-35			US-PATENT-CLASS-102-49.7
			US-PATENT-CLASS-317-235T			US-PATENT-CLASS-330-40			US-PATENT-CLASS-102-49.8
			US-PATENT-CLASS-317-235UA			US-PATENT-CLASS-330-80T			US-PATENT-CLASS-60-254
			US-PATENT-3,714,526			US-PATENT-3,715,693			US-PATENT-CLASS-60-256
N73-19419*	c 14		NASA-CASE-LAR-10226-1			NASA-CASE-LAR-10310-1			US-PATENT-3,729,935
			US-PATENT-APPL-SN-98774			US-PATENT-APPL-SN-147103			NASA-CASE-MFS-20332-2
			US-PATENT-CLASS-250-217R			US-PATENT-CLASS-235-197			US-PATENT-APPL-SN-195061
			US-PATENT-CLASS-95-11.5R			US-PATENT-3,714,405			US-PATENT-APPL-SN-869260
			US-PATENT-CLASS-95-11R			NASA-CASE-NPO-11868			US-PATENT-CLASS-128-142.5
			US-PATENT-3,712,195			US-PATENT-APPL-SN-192101			US-PATENT-CLASS-137-538
N73-19420*	c 14		NASA-CASE-MFS-20774			US-PATENT-CLASS-307-221R			US-PATENT-CLASS-2-2.1A
			US-PATENT-APPL-SN-161028			US-PATENT-CLASS-328-187			US-PATENT-3,720,208
			US-PATENT-CLASS-73-84			US-PATENT-CLASS-328-37			NASA-CASE-ARC-10097-2
			US-PATENT-3,712,121			US-PATENT-CLASS-328-61			US-PATENT-APPL-SN-115083
N73-19421*	c 14		NASA-CASE-MFS-20242			US-PATENT-3,718,863			US-PATENT-APPL-SN-768662
			US-PATENT-APPL-SN-213004			NASA-CASE-MFS-21362			US-PATENT-CLASS-325-113
			US-PATENT-CLASS-73-71.6			US-PATENT-APPL-SN-211411			US-PATENT-CLASS-325-139
			US-PATENT-3,712,120			US-PATENT-CLASS-73-432SD			US-PATENT-CLASS-325-45
N73-19457*	c 15		NASA-CASE-MFS-20698-2			US-PATENT-3,714,833			US-PATENT-CLASS-325-61
			US-PATENT-APPL-SN-136086			NASA-CASE-ERC-10350			US-PATENT-CLASS-340-207
			US-PATENT-APPL-SN-3418			US-PATENT-APPL-SN-55535			US-PATENT-CLASS-340-258R
			US-PATENT-CLASS-423-446			US-PATENT-CLASS-340-27R			US-PATENT-3,719,891
			US-PATENT-CLASS-423-625			US-PATENT-3,714,624			NASA-CASE-NPO-11707
			US-PATENT-3,714,332			NASA-CASE-LAR-10726-1			US-PATENT-APPL-SN-196399
N73-19458*	c 15		NASA-CASE-LAR-10195-1			US-PATENT-APPL-SN-146935			US-PATENT-CLASS-343-6.5R
			US-PATENT-APPL-SN-201782			US-PATENT-CLASS-250-231			US-PATENT-CLASS-343-6.8R
			US-PATENT-CLASS-259-4			US-PATENT-CLASS-250-83.3H			US-PATENT-3,729,736
			US-PATENT-3,712,591			US-PATENT-3,714,432			NASA-CASE-NPO-11497
N73-19630* #	c 21		NASA-CASE-GSC-11188-2			NASA-CASE-MFS-20673			US-PATENT-APPL-SN-155565
			US-PATENT-APPL-SN-244440			US-PATENT-APPL-SN-94049			US-PATENT-CLASS-235-10.2
N73-19793*	c 28		NASA-CASE-LEW-11187-1			US-PATENT-CLASS-73-90			US-PATENT-CLASS-235-151.27
			US-PATENT-APPL-SN-147922			US-PATENT-CLASS-73-91			US-PATENT-CLASS-235-92CV
			US-PATENT-CLASS-60-39.28R			US-PATENT-3,714,821			US-PATENT-CLASS-235-92DN
			US-PATENT-3,713,290			NASA-CASE-ARC-10443-1			US-PATENT-CLASS-235-92EA
N73-20039*	c 03		NASA-CASE-GSC-10814-1			US-PATENT-APPL-SN-128419			US-PATENT-CLASS-235-92EV
			US-PATENT-APPL-SN-41404			US-PATENT-CLASS-250-83.3R			US-PATENT-CLASS-235-92R
			US-PATENT-CLASS-244-1SA			US-PATENT-CLASS-250-83R			US-PATENT-3,729,129
			US-PATENT-CLASS-244-1SS			US-PATENT-3,715,590			NASA-CASE-MSC-12428-1
			US-PATENT-3,715,092			NASA-CASE-NPO-10985			US-PATENT-APPL-SN-170681
N73-20040*	c 03		NASA-CASE-NPO-11771			US-PATENT-APPL-SN-74759			US-PATENT-CLASS-179-1SA
			US-PATENT-APPL-SN-200762			US-PATENT-CLASS-324-30R			US-PATENT-CLASS-235-151.31
			US-PATENT-CLASS-244-1.55			US-PATENT-CLASS-324-65P			US-PATENT-CLASS-324-77R
			US-PATENT-CLASS-250-212			US-PATENT-CLASS-73-194E			US-PATENT-CLASS-324-78J
			US-PATENT-CLASS-250-234			US-PATENT-3,712,132			US-PATENT-3,732,405
			US-PATENT-CLASS-60-26			NASA-CASE-NPO-11213			NASA-CASE-GSC-11239-1
			US-PATENT-3,715,600			US-PATENT-APPL-SN-78703			US-PATENT-APPL-SN-180683
N73-20137*	c 05		NASA-CASE-LAR-10076-1			US-PATENT-CLASS-195-127			US-PATENT-CLASS-325-363
			US-PATENT-APPL-SN-84290			US-PATENT-3,713,987			US-PATENT-CLASS-325-67
			US-PATENT-CLASS-165-46			NASA-CASE-LAR-10765-1			US-PATENT-3,737,781
			US-PATENT-CLASS-312-1			US-PATENT-APPL-SN-138230			NASA-CASE-MFS-21919-1
			US-PATENT-CLASS-62-259			US-PATENT-CLASS-356-32			US-PATENT-APPL-SN-193456
			US-PATENT-3,713,480			US-PATENT-CLASS-73-88A			US-PATENT-CLASS-317-100
N73-20174*	c 07		NASA-CASE-GSC-10087-4			US-PATENT-3,715,915			US-PATENT-CLASS-317-101DH
			US-PATENT-APPL-SN-47440			NASA-CASE-ARC-10194-1			US-PATENT-3,735,206
			US-PATENT-APPL-SN-701679			US-PATENT-APPL-SN-107659			NASA-CASE-LAR-10578-1
			US-PATENT-CLASS-325-12			US-PATENT-CLASS-350-202			US-PATENT-APPL-SN-233098
			US-PATENT-CLASS-325-17			US-PATENT-3,715,152			US-PATENT-CLASS-73-147
			US-PATENT-CLASS-325-4			NASA-CASE-NPO-10166-1			US-PATENT-3,731,528
			US-PATENT-CLASS-325-5			US-PATENT-APPL-SN-192803			NASA-CASE-MFS-20916
			US-PATENT-CLASS-325-63			NASA-CASE-NPO-10893			US-PATENT-APPL-SN-212165
			US-PATENT-CLASS-325-7			US-PATENT-APPL-SN-845584			US-PATENT-CLASS-73-189
			US-PATENT-CLASS-325-8			US-PATENT-CLASS-260-94.8			US-PATENT-3,731,531
			US-PATENT-CLASS-325-9			US-PATENT-3,634,383			NASA-CASE-KSC-10108
			US-PATENT-CLASS-343-179			NASA-CASE-NPO-11751			US-PATENT-APPL-SN-73922
			US-PATENT-3,715,663			US-PATENT-APPL-SN-192141			US-PATENT-CLASS-343-14
N73-20175*	c 07		NASA-CASE-KSC-10698			US-PATENT-CLASS-343-DIG.2			US-PATENT-CLASS-343-17.5
			US-PATENT-APPL-SN-213949			US-PATENT-CLASS-343-915			US-PATENT-CLASS-343-6.8R
			US-PATENT-CLASS-324-72			US-PATENT-3,729,743			US-PATENT-3,732,567
			US-PATENT-CLASS-73-170R			NASA-CASE-LEW-11072-1			NASA-CASE-NPO-11686
			US-PATENT-3,715,660			US-PATENT-APPL-SN-104885			US-PATENT-APPL-SN-212900
N73-20176*	c 07		NASA-CASE-KSC-10521			US-PATENT-CLASS-136-225			US-PATENT-CLASS-250-203R
			US-PATENT-APPL-SN-212921			US-PATENT-3,729,343			US-PATENT-CLASS-250-214
			US-PATENT-CLASS-340-146.1C			NASA-CASE-MFS-20418			US-PATENT-CLASS-250-214
			US-PATENT-CLASS-340-147R			US-PATENT-APPL-SN-162101			US-PATENT-CLASS-250-83.3H

N73-25463*	c 14	US-PATENT-CLASS-356-152	N73-26175*	c 08	US-PATENT-3,737,231	N73-26958*	c 33	US-PATENT-3,733,424
		US-PATENT-3,723,745			NASA-CASE-NPO-11821-1			NASA-CASE-NPO-11330
N73-25512*	c 15	NASA-CASE-ARC-10278-1	N73-26176*	c 08	US-PATENT-APPL-SN-236285	N73-27052*	c 04	US-PATENT-APPL-SN-118269
		US-PATENT-APPL-SN-154933			US-PATENT-CLASS-235-152			US-PATENT-CLASS-285-DIG.21
N73-25513*	c 15	US-PATENT-CLASS-356-110	N73-26195*	c 09	US-PATENT-CLASS-235-164	N73-27062*	c 05	US-PATENT-CLASS-103.5R
		US-PATENT-3,729,260			US-PATENT-CLASS-328-167			US-PATENT-3,737,181
N73-25760*	c 25	NASA-CASE-LAR-10129-1	N73-26228*	c 10	US-PATENT-3,732,409	N73-27086*	c 06	NASA-CASE-GSC-11092-2
		US-PATENT-APPL-SN-99201			NASA-CASE-NPO-11456			US-PATENT-APPL-SN-139250
N73-25952*	c 33	US-PATENT-CLASS-182-5	N73-26229*	c 10	US-PATENT-APPL-SN-153543	N73-27150* #	c 09	US-PATENT-APPL-SN-60950
		US-PATENT-CLASS-188-65.1			US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-195-66R
N73-26004*	c 02	US-PATENT-CLASS-24-134R	N73-26230*	c 10	US-PATENT-3,740,725	N73-27376* #	c 14	US-PATENT-3,745,090
		US-PATENT-CLASS-254-156			NASA-CASE-GSC-10990-1			NASA-CASE-LEW-11669-1
N73-26005*	c 02	US-PATENT-3,729,068	N73-26238*	c 11	US-PATENT-APPL-SN-93329	N73-27377*	c 14	US-PATENT-APPL-SN-198885
		NASA-CASE-GSC-11205-1			US-PATENT-CLASS-333-73R			US-PATENT-CLASS-128-2
N73-26006*	c 02	US-PATENT-APPL-SN-107376	N73-26430*	c 14	US-PATENT-CLASS-333-73S	N73-27378*	c 14	US-PATENT-CLASS-128-24A
		US-PATENT-CLASS-188-266			US-PATENT-CLASS-333-82A			US-PATENT-CLASS-128-30S
N73-26071*	c 05	US-PATENT-CLASS-244-1SA	N73-26431*	c 14	US-PATENT-CLASS-333-84M	N73-27379*	c 14	US-PATENT-CLASS-32-28
		US-PATENT-3,737,118			US-PATENT-3,737,815			US-PATENT-CLASS-32-58
N73-26100*	c 06	NASA-CASE-LEW-11180-1	N73-26432*	c 14	NASA-CASE-ERC-10403-1	N73-27405*	c 15	US-PATENT-3,736,938
		US-PATENT-APPL-SN-175852			US-PATENT-APPL-SN-253405			NASA-CASE-GSC-10225-1
N73-26117*	c 07	US-PATENT-CLASS-313-161	N73-26572*	c 18	US-PATENT-CLASS-317-DIG.6	N73-27446*	c 17	US-PATENT-APPL-SN-710621
		US-PATENT-CLASS-313-231			US-PATENT-CLASS-321-11			US-PATENT-APPL-SN-1986775
N73-26118*	c 07	US-PATENT-CLASS-60-202	N73-26575*	c 26	US-PATENT-CLASS-321-45C	N73-27469*	c 28	US-PATENT-CLASS-29-580
		US-PATENT-3,735,591			US-PATENT-3,737,757			US-PATENT-CLASS-317-234G
N73-26119*	c 07	NASA-CASE-LEW-10359-2	N73-26751*	c 26	NASA-CASE-NPO-11569	N73-27941*	c 05	US-PATENT-CLASS-317-234L
		US-PATENT-APPL-SN-150215			US-PATENT-APPL-SN-199957			US-PATENT-CLASS-317-234N
		US-PATENT-APPL-SN-47063			US-PATENT-CLASS-307-220			US-PATENT-CLASS-317-234R
		US-PATENT-CLASS-102-105			US-PATENT-CLASS-307-233			US-PATENT-3,742,316
		US-PATENT-CLASS-244-117A			US-PATENT-3,737,676			NASA-CASE-NPO-11941-1
		US-PATENT-CLASS-60-200A			NASA-CASE-ERC-10403-1			US-PATENT-APPL-SN-241614
		US-PATENT-CLASS-60-265			US-PATENT-APPL-SN-254177			US-PATENT-CLASS-330-70CR
		US-PATENT-CLASS-60-267			US-PATENT-CLASS-235-186			US-PATENT-CLASS-331-17
		US-PATENT-CLASS-62-467			US-PATENT-CLASS-235-194			US-PATENT-CLASS-331-25
		US-PATENT-3,720,075			US-PATENT-CLASS-235-197			US-PATENT-3,740,671
		NASA-CASE-LAR-10682-1			US-PATENT-3,737,639			NASA-CASE-HQN-10037-1
		US-PATENT-APPL-SN-127915			NASA-CASE-NPO-11366			US-PATENT-APPL-SN-235957
		US-PATENT-CLASS-244-75A			US-PATENT-APPL-SN-144139			US-PATENT-CLASS-73-28
		US-PATENT-CLASS-244-76C			US-PATENT-CLASS-180-41			US-PATENT-3,741,001
		US-PATENT-CLASS-244-77F			US-PATENT-CLASS-180-6.5			NASA-CASE-MFS-21046-1
		US-PATENT-CLASS-244-77G			US-PATENT-CLASS-180-7R			US-PATENT-APPL-SN-156725
		US-PATENT-3,734,432			US-PATENT-CLASS-180-8A			US-PATENT-CLASS-272-73
		NASA-CASE-ARC-10470-1			US-PATENT-CLASS-180-9.2R			US-PATENT-CLASS-35-12C
		US-PATENT-APPL-SN-206279			US-PATENT-CLASS-180-9.5			US-PATENT-3,744,794
		US-PATENT-CLASS-244-13			US-PATENT-CLASS-305-35EB			NASA-CASE-KSC-10626
		US-PATENT-CLASS-244-46			US-PATENT-CLASS-305-39			US-PATENT-APPL-SN-180963
		US-PATENT-CLASS-244-55			US-PATENT-3,730,287			US-PATENT-CLASS-222-414
		US-PATENT-3,737,121			NASA-CASE-NPO-11304			US-PATENT-CLASS-244-1SS
		NASA-CASE-ARC-10470-1			US-PATENT-APPL-SN-101214			US-PATENT-CLASS-244-135
		US-PATENT-APPL-SN-203405			US-PATENT-CLASS-219-499			US-PATENT-3,744,738
		US-PATENT-CLASS-114-122			US-PATENT-CLASS-219-50			NASA-CASE-FRC-10060-1
		US-PATENT-CLASS-9-11A			US-PATENT-3,733,463			US-PATENT-APPL-SN-189290
		US-PATENT-CLASS-9-2A			NASA-CASE-ERC-10276			US-PATENT-CLASS-179-175.1A
		US-PATENT-CLASS-9-3			US-PATENT-APPL-SN-24155			US-PATENT-CLASS-340-5C
		US-PATENT-3,736,607			US-PATENT-CLASS-250-209			US-PATENT-CLASS-73-1DV
		NASA-CASE-ARC-10599-1			US-PATENT-CLASS-340-15.5GC			US-PATENT-3,744,294
		US-PATENT-APPL-SN-247481			US-PATENT-CLASS-343-100ME			NASA-CASE-MFS-20855
		US-PATENT-CLASS-165-46			US-PATENT-3,737,905			US-PATENT-APPL-SN-127647
		US-PATENT-CLASS-2-2.1			NASA-CASE-KSC-10639			US-PATENT-CLASS-219-348
		US-PATENT-CLASS-62-176			US-PATENT-APPL-SN-181023			US-PATENT-CLASS-53-112A
		US-PATENT-CLASS-62-207			US-PATENT-CLASS-137-397			US-PATENT-CLASS-53-22A
		US-PATENT-CLASS-62-209			US-PATENT-CLASS-137-582			US-PATENT-3,745,739
		US-PATENT-CLASS-62-259			US-PATENT-3,736,956			NASA-CASE-NPO-11377
		US-PATENT-CLASS-62-89			NASA-CASE-ARC-10304-1			US-PATENT-APPL-SN-187262
		US-PATENT-3,736,764			US-PATENT-APPL-SN-140946			US-PATENT-CLASS-137-1
		NASA-CASE-ARC-10329-1			US-PATENT-CLASS-252-8.1			US-PATENT-CLASS-137-154
		US-PATENT-APPL-SN-159857			US-PATENT-3,730,891			US-PATENT-CLASS-137-604
		US-PATENT-CLASS-128-2.1R			NASA-CASE-MFS-20675			US-PATENT-3,744,510
		US-PATENT-CLASS-351-23			US-PATENT-APPL-SN-200085			NASA-CASE-LAR-10953-1
		US-PATENT-CLASS-351-30			US-PATENT-CLASS-250-219TH			US-PATENT-APPL-SN-163152
		US-PATENT-CLASS-351-36			US-PATENT-CLASS-356-108			US-PATENT-CLASS-23-230R
		US-PATENT-3,737,217			US-PATENT-CLASS-356-161			US-PATENT-3,744,972
		NASA-CASE-GSC-11358-1			US-PATENT-CLASS-356-202			NASA-CASE-XLE-10453-2
		US-PATENT-APPL-SN-226551			US-PATENT-3,737,237			US-PATENT-APPL-SN-180473
		US-PATENT-CLASS-260-46.5R			NASA-CASE-LEW-11726-1			US-PATENT-APPL-SN-758540
		US-PATENT-3,733,350			US-PATENT-APPL-SN-280031			US-PATENT-CLASS-313-217
		NASA-CASE-KSC-10392			US-PATENT-CLASS-156-18			US-PATENT-CLASS-313-218
		US-PATENT-APPL-SN-181024			US-PATENT-CLASS-174-DIG.6			US-PATENT-CLASS-313-230
		US-PATENT-CLASS-343-880			US-PATENT-CLASS-29-599			US-PATENT-CLASS-313-355
		US-PATENT-CLASS-343-883			US-PATENT-CLASS-336-DIG.1			US-PATENT-CLASS-313-63
		US-PATENT-CLASS-343-889			US-PATENT-CLASS-336-200			US-PATENT-CLASS-60-202
		US-PATENT-CLASS-343-895			US-PATENT-3,737,824			US-PATENT-3,744,247
		US-PATENT-3,737,912			NASA-CASE-MFS-20863			NASA-CASE-LAR-10439-1
		NASA-CASE-NPO-11548			US-PATENT-APPL-SN-159966			US-PATENT-APPL-SN-182033
		US-PATENT-APPL-SN-151411			US-PATENT-CLASS-244-1SD			US-PATENT-CLASS-356-72
		US-PATENT-CLASS-179-15A			US-PATENT-CLASS-244-137P			US-PATENT-CLASS-73-339
		US-PATENT-CLASS-179-15BM			US-PATENT-3,737,117			US-PATENT-CLASS-73-432R
		US-PATENT-CLASS-325-40			NASA-CASE-LAR-10756-1			US-PATENT-CLASS-73-86
		US-PATENT-CLASS-343-204			US-PATENT-APPL-SN-160859			US-PATENT-3,745,816
		US-PATENT-3,737,776			US-PATENT-CLASS-235-92MT			NASA-CASE-MFS-21109-1
		NASA-CASE-NPO-11426			US-PATENT-CLASS-73-67.3			US-PATENT-APPL-SN-202769
		US-PATENT-APPL-SN-89210			US-PATENT-CLASS-73-88.5R			US-PATENT-CLASS-128-2.05R
		US-PATENT-CLASS-250-199			US-PATENT-CLASS-73-91			
		US-PATENT-CLASS-331-94.5						
		US-PATENT-CLASS-332-7.51						
		US-PATENT-CLASS-356-4						
		US-PATENT-CLASS-356-5						

		US-PATENT-CLASS-128-2.06R			US-PATENT-CLASS-317-158			US-PATENT-APPL-SN-11220
		US-PATENT-CLASS-272-73			US-PATENT-3,244,943			US-PATENT-APPL-SN-51317
		US-PATENT-CLASS-73-379	N73-28573*	c 17	NASA-CASE-XNP-08876			US-PATENT-CLASS-250-105
		US-PATENT-3,744,480			US-PATENT-APPL-SN-527331			US-PATENT-CLASS-250-65R
N73-27980*	c 06	NASA-CASE-LEW-11325-1			US-PATENT-CLASS-75-66			US-PATENT-3,749,911
		US-PATENT-APPL-SN-184960			US-PATENT-3,419,384	N73-30390*	c 14	NASA-CASE-XGS-07752
		US-PATENT-CLASS-117-161P	N73-28710*	c 26	NASA-CASE-XNP-01185			US-PATENT-APPL-SN-533659
		US-PATENT-CLASS-117-161UN			US-PATENT-APPL-SN-155595			US-PATENT-CLASS-73-4
		US-PATENT-CLASS-117-228			US-PATENT-CLASS-317-158			US-PATENT-3,395,565
		US-PATENT-CLASS-161-214			US-PATENT-3,198,994	N73-30391*	c 14	NASA-CASE-XLA-05087
		US-PATENT-CLASS-161-227	N73-30078*	c 05	NASA-CASE-MFS-21010-1			US-PATENT-APPL-SN-459407
		US-PATENT-CLASS-260-30.2			US-PATENT-APPL-SN-251609			US-PATENT-CLASS-315-111
		US-PATENT-CLASS-260-30.8DS			US-PATENT-CLASS-73-379			US-PATENT-3,394,286
		US-PATENT-CLASS-260-32.6N			US-PATENT-3,750,479	N73-30392*	c 14	NASA-CASE-MFS-21441-1
		US-PATENT-CLASS-260-33.4R	N73-30097*	c 06	NASA-CASE-LAR-10670-1			US-PATENT-APPL-SN-231662
		US-PATENT-CLASS-260-33.6R			US-PATENT-APPL-SN-59892			US-PATENT-CLASS-250-394
		US-PATENT-CLASS-260-47CP			US-PATENT-CLASS-149-1			US-PATENT-CLASS-250-518
		US-PATENT-CLASS-260-65			US-PATENT-CLASS-149-36			US-PATENT-3,752,986
		US-PATENT-CLASS-260-78TF			US-PATENT-CLASS-252-301.4	N73-30393*	c 14	NASA-CASE-GSC-11487-1
		US-PATENT-CLASS-260-78UA			US-PATENT-CLASS-252-305			US-PATENT-APPL-SN-193814
		US-PATENT-3,745,149			US-PATENT-CLASS-60-215			US-PATENT-CLASS-250-203
N73-28012*	c 07	NASA-CASE-NPO-11593-1	N73-30098*	c 06	US-PATENT-3,751,913			US-PATENT-CLASS-350-199
		US-PATENT-APPL-SN-172807			NASA-CASE-MFS-21040-1			US-PATENT-CLASS-350-204
		US-PATENT-CLASS-179-15FS			US-PATENT-APPL-SN-183240			US-PATENT-CLASS-350-55
		US-PATENT-CLASS-325-419			US-PATENT-CLASS-260-485F			US-PATENT-3,752,559
		US-PATENT-CLASS-329-122			US-PATENT-3,752,847	N73-30394*	c 14	NASA-CASE-LAR-10000
		US-PATENT-3,745,255	N73-30099*	c 06	NASA-CASE-MFS-10512			US-PATENT-APPL-SN-613235
N73-28013*	c 07	NASA-CASE-GSC-11046-1			US-PATENT-APPL-SN-606027			US-PATENT-CLASS-73-398
		US-PATENT-APPL-SN-182399			US-PATENT-CLASS-260-77.5			US-PATENT-3,446,075
		US-PATENT-CLASS-343-725			US-PATENT-3,463,761	N73-30395*	c 14	NASA-CASE-LAR-10623-1
		US-PATENT-CLASS-343-729	N73-30100*	c 06	NASA-CASE-MFS-10506			US-PATENT-APPL-SN-214086
		US-PATENT-CLASS-343-797			US-PATENT-APPL-SN-606036			US-PATENT-CLASS-15-415
		US-PATENT-CLASS-343-803			US-PATENT-CLASS-260-77.5			US-PATENT-CLASS-73-28
		US-PATENT-CLASS-343-893			US-PATENT-3,463,762			US-PATENT-CLASS-73-421.5R
		US-PATENT-3,747,111	N73-30101*	c 06	NASA-CASE-MFS-10507			US-PATENT-3,748,905
N73-28045*	c 08	NASA-CASE-XNP-00477			US-PATENT-APPL-SN-605994	N73-30457*	c 15	NASA-CASE-GSC-11149-1
		US-PATENT-APPL-SN-175497			US-PATENT-CLASS-260-615			US-PATENT-APPL-SN-152849
		US-PATENT-CLASS-340-347			US-PATENT-3,452,103			US-PATENT-CLASS-254-29A
		US-PATENT-3,219,997	N73-30102*	c 06	NASA-CASE-MFS-11492			US-PATENT-CLASS-29-452
N73-28083*	c 09	NASA-CASE-GSC-11215-1			US-PATENT-APPL-SN-707440			US-PATENT-CLASS-81-57.38
		US-PATENT-APPL-SN-114873			US-PATENT-CLASS-260-2			US-PATENT-3,749,362
		US-PATENT-CLASS-29-628			US-PATENT-3,577,356	N73-30458*	c 15	NASA-CASE-LEW-11087-1
		US-PATENT-CLASS-29-629	N73-30103*	c 06	NASA-CASE-MFS-10509			US-PATENT-APPL-SN-201904
		US-PATENT-CLASS-29-630			US-PATENT-APPL-SN-605964			US-PATENT-CLASS-308-188
		US-PATENT-CLASS-29-630A			US-PATENT-CLASS-260-77.5			US-PATENT-CLASS-308-193
		US-PATENT-3,744,128			US-PATENT-3,475,384			US-PATENT-3,751,123
N73-28084*	c 09	NASA-CASE-XNP-03623	N73-30113*	c 07	NASA-CASE-NPO-11628-1	N73-30459*	c 15	NASA-CASE-MSC-13587-1
		US-PATENT-APPL-SN-471154			US-PATENT-APPL-SN-207211			US-PATENT-APPL-SN-206698
		US-PATENT-CLASS-178-69.5			US-PATENT-CLASS-325-420			US-PATENT-CLASS-137-516.27
		US-PATENT-3,402,265			US-PATENT-CLASS-325-422			US-PATENT-CLASS-137-535
N73-28144*	c 12	NASA-CASE-LAR-10612-1			US-PATENT-CLASS-329-120			US-PATENT-3,749,123
		US-PATENT-APPL-SN-233173			US-PATENT-3,746,998	N73-30460*	c 15	NASA-CASE-HQN-10638-1
		US-PATENT-CLASS-73-147	N73-30115*	c 07	NASA-CASE-KSC-10654-1			US-PATENT-APPL-SN-212977
		US-PATENT-3,744,305			US-PATENT-APPL-SN-250766			US-PATENT-CLASS-188-1C
N73-28486*	c 14	NASA-CASE-NPO-11749			US-PATENT-CLASS-178-DIG.23			US-PATENT-CLASS-297-386
		US-PATENT-APPL-SN-175267			US-PATENT-CLASS-178-6.6DD			US-PATENT-3,749,205
		US-PATENT-CLASS-324-52			US-PATENT-CLASS-178-6.8	N73-30476*	c 16	NASA-CASE-MFS-20823-1
		US-PATENT-CLASS-73-15R			US-PATENT-CLASS-179-15BS			US-PATENT-APPL-SN-175981
		US-PATENT-3,737,762			US-PATENT-3,749,831			US-PATENT-CLASS-350-3.5
N73-28487*	c 14	NASA-CASE-XLA-08916-2	N73-30135*	c 08	NASA-CASE-NPO-10817-1			US-PATENT-CLASS-356-108
		US-PATENT-APPL-SN-777765			US-PATENT-APPL-SN-82649			US-PATENT-CLASS-356-109
		US-PATENT-APPL-SN-97472			US-PATENT-CLASS-250-229			US-PATENT-3,744,912
		US-PATENT-CLASS-73-170R			US-PATENT-CLASS-250-237R	N73-30532*	c 18	NASA-CASE-ERC-10339-1
		US-PATENT-CLASS-73-432R			US-PATENT-CLASS-250-239			US-PATENT-APPL-SN-43883
		US-PATENT-3,744,320			US-PATENT-3,745,352			US-PATENT-CLASS-156-285
N73-28488*	c 14	NASA-CASE-LEW-11159-1	N73-30181*	c 09	NASA-CASE-MFS-21214-1			US-PATENT-3,745,082
		US-PATENT-APPL-SN-104346			US-PATENT-APPL-SN-235269	N73-30640*	c 21	NASA-CASE-GSC-10890-1
		US-PATENT-CLASS-250-336			US-PATENT-CLASS-313-161			US-PATENT-APPL-SN-111998
		US-PATENT-CLASS-307-308			US-PATENT-CLASS-315-248			US-PATENT-CLASS-244-15A
		US-PATENT-3,745,357			US-PATENT-CLASS-315-324			US-PATENT-CLASS-250-203R
N73-28489*	c 14	NASA-CASE-GSC-11074-1			US-PATENT-3,745,410			US-PATENT-CLASS-250-209
		US-PATENT-APPL-SN-198362	N73-30185*	c 09	NASA-CASE-NPO-11738-1			US-PATENT-CLASS-250-236
		US-PATENT-CLASS-34-155			US-PATENT-APPL-SN-235295			US-PATENT-3,752,993
		US-PATENT-CLASS-34-160			US-PATENT-CLASS-335-296	N73-30641*	c 21	NASA-CASE-LAR-10717-1
		US-PATENT-CLASS-34-162			US-PATENT-CLASS-335-297			US-PATENT-APPL-SN-242028
		US-PATENT-3,744,148			US-PATENT-3,750,067			US-PATENT-CLASS-343-112CA
N73-28490*	c 14	NASA-CASE-GSC-11444-1	N73-30205*	c 10	NASA-CASE-NPO-11307-1			US-PATENT-CLASS-343-6.5R
		US-PATENT-APPL-SN-229128			US-PATENT-APPL-SN-169671			US-PATENT-3,750,168
		US-PATENT-CLASS-250-203R			US-PATENT-CLASS-340-277	N73-30665*	c 23	NASA-CASE-LEW-11326-1
		US-PATENT-CLASS-250-209			US-PATENT-CLASS-340-279			US-PATENT-APPL-SN-192970
		US-PATENT-CLASS-250-214R			US-PATENT-3,750,131			US-PATENT-CLASS-431-173
		US-PATENT-CLASS-356-141	N73-30386*	c 14	NASA-CASE-MFS-20658-1			US-PATENT-CLASS-431-9
		US-PATENT-3,744,913			US-PATENT-APPL-SN-205675			US-PATENT-CLASS-60-39.65
N73-28491*	c 14	NASA-CASE-XNP-05231			US-PATENT-CLASS-324-79D			US-PATENT-CLASS-60-39.66
		US-PATENT-APPL-SN-524746			US-PATENT-CLASS-328-129			US-PATENT-CLASS-60-39.72
		US-PATENT-CLASS-250-51.5			US-PATENT-CLASS-328-134			US-PATENT-CLASS-60-39.74R
		US-PATENT-3,440,419			US-PATENT-CLASS-328-48			US-PATENT-3,748,853
N73-28515*	c 15	NASA-CASE-LEW-10533-1	N73-30388*	c 14	US-PATENT-3,745,475	N73-30666*	c 23	NASA-CASE-GSC-11296-1
		US-PATENT-APPL-SN-134658			NASA-CASE-NPO-11291-1			US-PATENT-APPL-SN-228190
		US-PATENT-CLASS-219-107			US-PATENT-APPL-SN-116790			US-PATENT-CLASS-350-162SF
		US-PATENT-CLASS-219-62			US-PATENT-CLASS-324-29.5			US-PATENT-CLASS-350-55
		US-PATENT-CLASS-27-498			US-PATENT-CLASS-324-57R			US-PATENT-3,752,564
		US-PATENT-CLASS-29-497.5			US-PATENT-CLASS-324-62R	N73-30829*	c 31	NASA-CASE-GSC-11018-1
		US-PATENT-3,745,300			US-PATENT-CLASS-324-95			US-PATENT-APPL-SN-244523
N73-28516*	c 15	NASA-CASE-XNP-01187			US-PATENT-3,750,016			US-PATENT-CLASS-165-105
		US-PATENT-APPL-SN-155598	N73-30389*	c 14	NASA-CASE-MFS-20546-2			US-PATENT-CLASS-165-32

				US-PATENT-CLASS-165-47				US-PATENT-3,760,239				US-PATENT-CLASS-117-151
				US-PATENT-CLASS-165-96				NASA-CASE-MSC-13746-1				US-PATENT-CLASS-117-160R
				US-PATENT-CLASS-244-1SS				US-PATENT-APPL-SN-226476				US-PATENT-CLASS-117-66
				US-PATENT-3,749,156				US-PATENT-CLASS-178-18				US-PATENT-CLASS-29-527.2
N73-31988*	c 03			NASA-CASE-MSC-12396-1				US-PATENT-3,758,718				US-PATENT-CLASS-72-53
				US-PATENT-APPL-SN-258331				NASA-CASE-NPO-11703-1				US-PATENT-3,754,976
				US-PATENT-CLASS-307-18				US-PATENT-APPL-SN-223560		N73-32361*	c 15	NASA-CASE-XNP-01188
				US-PATENT-CLASS-307-28				US-PATENT-CLASS-340-166				US-PATENT-APPL-SN-155596
				US-PATENT-CLASS-307-29				US-PATENT-CLASS-340-173				US-PATENT-CLASS-317-158
				US-PATENT-CLASS-307-38				US-PATENT-CLASS-340-223				US-PATENT-3,262,025
				US-PATENT-3,755,686				US-PATENT-CLASS-340-415		N73-32362*	c 15	NASA-CASE-XNP-07169
N73-32011*	c 05			NASA-CASE-GSC-11169-2				US-PATENT-3,760,394				US-PATENT-APPL-SN-486884
				US-PATENT-APPL-SN-139094				NASA-CASE-MFS-21465-1				US-PATENT-CLASS-175-26
				US-PATENT-APPL-SN-60882				US-PATENT-APPL-SN-218965				US-PATENT-3,375,885
				US-PATENT-CLASS-195-127				US-PATENT-CLASS-307-271		N73-32391*	c 16	NASA-CASE-GSC-11222-1
				US-PATENT-3,756,920				US-PATENT-CLASS-318-230				US-PATENT-APPL-SN-251621
N73-32012*	c 05			NASA-CASE-MSC-12609-1				US-PATENT-CLASS-318-231				US-PATENT-CLASS-307-157
				US-PATENT-APPL-SN-750031				US-PATENT-CLASS-318-341				US-PATENT-CLASS-315-DIG.2
				US-PATENT-CLASS-128-1A				US-PATENT-CLASS-331-135				US-PATENT-CLASS-315-101
				US-PATENT-CLASS-2-2.1A				US-PATENT-3,760,248				US-PATENT-CLASS-315-258
				US-PATENT-CLASS-2-81				NASA-CASE-MSC-13789-1				US-PATENT-CLASS-315-356
				US-PATENT-3,751,727				US-PATENT-APPL-SN-166487				US-PATENT-CLASS-330-4.3
N73-32013*	c 05			NASA-CASE-MFS-16570-1				US-PATENT-CLASS-102-95				US-PATENT-CLASS-331-94.5
				US-PATENT-APPL-SN-228150				US-PATENT-CLASS-188-1C				US-PATENT-3,758,877
				US-PATENT-CLASS-3-1.1				US-PATENT-CLASS-89-8		N73-32414*	c 17	NASA-CASE-LEW-11267-1
				US-PATENT-CLASS-3-12				US-PATENT-3,763,740				US-PATENT-APPL-SN-190316
				US-PATENT-CLASS-3-2				NASA-CASE-NPO-12128-1				US-PATENT-CLASS-29-196.2
				US-PATENT-CLASS-3-6				US-PATENT-APPL-SN-841845				US-PATENT-CLASS-29-196.6
				US-PATENT-3,751,733				US-PATENT-CLASS-250-207				US-PATENT-CLASS-29-197
N73-32014*	c 05			NASA-CASE-MSC-11561-1				US-PATENT-CLASS-250-83.3R				US-PATENT-3,762,884
				US-PATENT-APPL-SN-146940				US-PATENT-CLASS-313-104		N73-32415*	c 17	NASA-CASE-LEW-10436-1
				US-PATENT-CLASS-137-535				US-PATENT-3,758,781				US-PATENT-APPL-SN-221093
				US-PATENT-CLASS-272-DIG.1				NASA-CASE-KSC-10730-1				US-PATENT-CLASS-73-170
				US-PATENT-CLASS-272-DIG.4				US-PATENT-APPL-SN-248469				US-PATENT-CLASS-75-171
				US-PATENT-CLASS-272-DIG.5				US-PATENT-CLASS-324-72				US-PATENT-3,762,918
				US-PATENT-CLASS-272-79C				US-PATENT-3,760,268		N73-32437*	c 18	NASA-CASE-MFS-20861-1
				US-PATENT-CLASS-91-186				NASA-CASE-KSC-10728-1				US-PATENT-APPL-SN-160860
				US-PATENT-3,758,112				US-PATENT-APPL-SN-292682				US-PATENT-CLASS-75-135
N73-32015*	c 05			NASA-CASE-MSC-13436-1				US-PATENT-CLASS-95-11.5				US-PATENT-3,752,665
				US-PATENT-APPL-SN-173190				US-PATENT-3,759,152		N73-32528*	c 22	NASA-CASE-XLE-00209
				US-PATENT-CLASS-128-2.07				NASA-CASE-GSC-11188-1				US-PATENT-APPL-SN-60276
				US-PATENT-CLASS-128-2.08				US-PATENT-APPL-SN-244440				US-PATENT-CLASS-176-169
				US-PATENT-CLASS-73-194E				US-PATENT-APPL-SN-80029		N73-32571*	c 26	US-PATENT-3,759,787
				US-PATENT-CLASS-73-194M				US-PATENT-CLASS-29-195Y				NASA-CASE-LEW-11015
				US-PATENT-3,759,249				US-PATENT-3,759,672				US-PATENT-APPL-SN-235266
N73-32029*	c 06			NASA-CASE-NPO-10998-1				NASA-CASE-XNP-05530				US-PATENT-CLASS-174-DIG.6
				NASA-CASE-NPO-10999-1				NASA-CASE-XNP-06933				US-PATENT-CLASS-174-126CP
				US-PATENT-APPL-SN-145027				US-PATENT-APPL-SN-488381				US-PATENT-CLASS-29-599
				US-PATENT-CLASS-252-431N				US-PATENT-CLASS-73-81				US-PATENT-CLASS-335-216
				US-PATENT-CLASS-252-431R				US-PATENT-3,379,052				US-PATENT-3,763,552
				US-PATENT-CLASS-260-47UP				NASA-CASE-LAR-10319-1		N73-32606*	c 28	NASA-CASE-NPO-12070-1
				US-PATENT-CLASS-260-567.6M				US-PATENT-APPL-SN-197870				US-PATENT-APPL-SN-153542
				US-PATENT-CLASS-260-93.5A				US-PATENT-CLASS-346-110				US-PATENT-CLASS-165-105
				US-PATENT-CLASS-260-93.5S				US-PATENT-CLASS-95-42				US-PATENT-CLASS-165-141
				US-PATENT-CLASS-260-94.2M				US-PATENT-3,757,659				US-PATENT-CLASS-165-185
				US-PATENT-CLASS-260-94.2R				NASA-CASE-LAR-10440-1				US-PATENT-CLASS-239-127.1
				US-PATENT-CLASS-260-94.7R				US-PATENT-APPL-SN-229413				US-PATENT-CLASS-60-267
				US-PATENT-3,755,283				US-PATENT-CLASS-73-103		N73-32749*	c 31	US-PATENT-3,759,443
N73-32030*	c 06			NASA-CASE-MFS-20979-2				US-PATENT-CLASS-73-94				NASA-CASE-ERC-10365-1
				US-PATENT-APPL-SN-100774				US-PATENT-3,757,568				US-PATENT-APPL-SN-99198
				US-PATENT-APPL-SN-219590				NASA-CASE-LAR-02743				US-PATENT-CLASS-287-92
				US-PATENT-CLASS-260-448.2D				US-PATENT-APPL-SN-404212				US-PATENT-CLASS-52-109
				US-PATENT-3,763,204				US-PATENT-CLASS-313-7				US-PATENT-CLASS-52-64
N73-32081*	c 08			NASA-CASE-MSC-12458-1				US-PATENT-3,310,699				US-PATENT-CLASS-52-80
				US-PATENT-APPL-SN-188927				NASA-CASE-XNP-04231		N73-32750*	c 31	US-PATENT-3,757,476
				US-PATENT-CLASS-235-152IE				US-PATENT-APPL-SN-362261				NASA-CASE-LEW-11101-1
				US-PATENT-CLASS-340-347DA				US-PATENT-CLASS-250-41.9				US-PATENT-APPL-SN-175983
				US-PATENT-3,754,236				US-PATENT-3,334,225				US-PATENT-CLASS-244-1SC
N73-32107*	c 09			NASA-CASE-MFS-20207-1				NASA-CASE-ARC-10362-1				US-PATENT-CLASS-244-1SS
				US-PATENT-APPL-SN-239574				US-PATENT-APPL-SN-198289				US-PATENT-CLASS-47-1.4
				US-PATENT-CLASS-318-254				US-PATENT-CLASS-128-2.05F				US-PATENT-CLASS-47-17
				US-PATENT-CLASS-318-328				US-PATENT-CLASS-73-194EM		N73-32818*	c 33	US-PATENT-3,749,332
				US-PATENT-3,757,183				US-PATENT-3,751,980				NASA-CASE-NPO-11942-1
N73-32108*	c 09			NASA-CASE-GSC-11368-1				NASA-CASE-LAR-10483-1				US-PATENT-APPL-SN-266866
				US-PATENT-APPL-SN-237029				US-PATENT-APPL-SN-184090				US-PATENT-CLASS-165-106
				US-PATENT-CLASS-136-24				US-PATENT-CLASS-73-12				US-PATENT-CLASS-165-32
				US-PATENT-3,759,746				US-PATENT-CLASS-73-170R				US-PATENT-CLASS-165-96
N73-32109*	c 09			NASA-CASE-GSC-11394-1				US-PATENT-3,763,691				US-PATENT-CLASS-244-1SS
				US-PATENT-APPL-SN-292698				NASA-CASE-LEW-11388-1				US-PATENT-3,763,928
				US-PATENT-CLASS-136-89				US-PATENT-APPL-SN-289033		N73-33076*	c 06	NASA-CASE-NPO-10767-1
				US-PATENT-CLASS-250-212				US-PATENT-CLASS-219-117				US-PATENT-APPL-SN-241061
				US-PATENT-CLASS-321-1.5				US-PATENT-CLASS-219-91				US-PATENT-APPL-SN-770417
				US-PATENT-3,760,257				US-PATENT-CLASS-29-497				US-PATENT-CLASS-260-77.5AP
N73-32110*	c 09			NASA-CASE-KSC-10729-1				US-PATENT-3,758,741				US-PATENT-3,755,265
				US-PATENT-APPL-SN-221714				NASA-CASE-LEW-11152-1		N73-33361*	c 14	NASA-CASE-ARC-10468-1
				US-PATENT-CLASS-343-112R				US-PATENT-APPL-SN-198379				US-PATENT-CLASS-355-18
				US-PATENT-CLASS-343-113R				US-PATENT-CLASS-308-35				US-PATENT-CLASS-95-12
				US-PATENT-3,754,263				US-PATENT-CLASS-308-9				US-PATENT-3,764,209
N73-32111*	c 09			NASA-CASE-ARC-10463-1				NASA-CASE-GSC-11163-1		N73-33383*	c 15	NASA-CASE-LEW-11026-1
				US-PATENT-APPL-SN-241615				US-PATENT-APPL-SN-205047				US-PATENT-APPL-SN-196970
				US-PATENT-CLASS-331-94.5				US-PATENT-CLASS-117-105				US-PATENT-CLASS-29-487
				US-PATENT-3,753,148				US-PATENT-CLASS-117-105.5				US-PATENT-CLASS-29-494
N73-32112*	c 09			NASA-CASE-ARC-10330-1				US-PATENT-CLASS-117-130R				US-PATENT-CLASS-29-497.5
				US-PATENT-APPL-SN-151412				US-PATENT-CLASS-117-138.8R				US-PATENT-CLASS-29-498
				US-PATENT-CLASS-317-235R								
				US-PATENT-CLASS-317-235WW								

N73-33397*	c 16	US-PATENT-CLASS-3748,722	N74-11284*	c 35	US-PATENT-CLASS-178-6.6DD	N74-13011*	c 46	US-PATENT-CLASS-317-234R
		NASA-CASE-ARC-10444-1			US-PATENT-CLASS-179-100.2MD			US-PATENT-CLASS-3778,685
		US-PATENT-APPL-SN-167719			US-PATENT-CLASS-179-100.2T			NASA-CASE-MSC-12408-1
		US-PATENT-CLASS-331-94.5A			US-PATENT-CLASS-340-174.1L			US-PATENT-APPL-SN-229916
		US-PATENT-CLASS-350-285			US-PATENT-CLASS-370,903			US-PATENT-CLASS-423-579
N74-10034*	c 02	US-PATENT-CLASS-356-138	N74-11300*	c 37	NASA-CASE-NPO-11919-1	N74-13129*	c 35	US-PATENT-CLASS-3773,913
		US-PATENT-CLASS-356-148			US-PATENT-APPL-SN-237694			NASA-CASE-FRC-10051-1
		US-PATENT-CLASS-356-153			US-PATENT-CLASS-250-343			US-PATENT-APPL-SN-253725
		US-PATENT-CLASS-356-172			US-PATENT-CLASS-376,380			US-PATENT-CLASS-254-93R
		US-PATENT-CLASS-3764,220			NASA-CASE-LEW-10533-2			US-PATENT-CLASS-73-88R
N74-10132*	c 32	NASA-CASE-LAR-10776-1	N74-11301*	c 37	US-PATENT-APPL-SN-247055	N74-13130*	c 91	US-PATENT-CLASS-3776,028
		US-PATENT-APPL-SN-211332			US-PATENT-CLASS-219-101			NASA-CASE-NPO-12127-1
		US-PATENT-CLASS-244-145			US-PATENT-CLASS-219-107			US-PATENT-APPL-SN-106106
		US-PATENT-CLASS-3764,097			US-PATENT-CLASS-219-78			US-PATENT-CLASS-250-219DF
		NASA-CASE-NPO-11302-2			US-PATENT-CLASS-29-497.5			US-PATENT-CLASS-250-83CD
N74-10194*	c 33	US-PATENT-APPL-SN-266822	N74-11313*	c 36	US-PATENT-CLASS-3770,933	N74-13131*	c 39	US-PATENT-CLASS-3752,996
		US-PATENT-CLASS-178-69.4R			NASA-CASE-LAR-10170-1			NASA-CASE-MFS-20730-1
		US-PATENT-CLASS-3766,315			US-PATENT-APPL-SN-217213			US-PATENT-APPL-SN-182977
		NASA-CASE-NPO-11962-1			US-PATENT-CLASS-117-105.2			US-PATENT-CLASS-269-48.1
		US-PATENT-APPL-SN-292681			US-PATENT-CLASS-29-460			US-PATENT-CLASS-83-452
N74-10195*	c 33	US-PATENT-CLASS-331-1A	N74-12778*	c 52	US-PATENT-CLASS-29-498	N74-13177*	c 31	US-PATENT-CLASS-83-602
		US-PATENT-CLASS-331-14			US-PATENT-CLASS-29-503			US-PATENT-CLASS-83-917
		US-PATENT-CLASS-331-17			US-PATENT-CLASS-29-527.2			US-PATENT-CLASS-3777,605
		US-PATENT-CLASS-331-178			US-PATENT-CLASS-3769,689			NASA-CASE-LAR-10910-1
		US-PATENT-CLASS-331-18			NASA-CASE-HON-10790-1			US-PATENT-APPL-SN-239577
N74-10223*	c 33	US-PATENT-CLASS-331-4	N74-12779*	c 54	US-PATENT-APPL-SN-235962	N74-13178*	c 37	US-PATENT-CLASS-73-4R
		US-PATENT-CLASS-3764,933			US-PATENT-CLASS-333-83R			US-PATENT-CLASS-73-420
		NASA-CASE-LEW-11617-1			US-PATENT-CLASS-333-97R			US-PATENT-CLASS-3777,546
		US-PATENT-APPL-SN-266832			US-PATENT-CLASS-3771,074			NASA-CASE-LAR-10547-1
		US-PATENT-CLASS-315-5.35			NASA-CASE-MFS-20284-1			US-PATENT-APPL-SN-193980
N74-10415*	c 35	US-PATENT-CLASS-315-5.38	N74-12812*	c 27	US-PATENT-APPL-SN-242027	N74-13205*	c 36	US-PATENT-CLASS-264-294
		US-PATENT-CLASS-3764,850			US-PATENT-CLASS-128-2.05T			US-PATENT-CLASS-772,418
		NASA-CASE-LAR-10730-1			US-PATENT-CLASS-128-2.06F			NASA-CASE-LAR-10544-1
		US-PATENT-APPL-SN-239573			US-PATENT-CLASS-324-186			US-PATENT-APPL-SN-188928
		US-PATENT-CLASS-235-150.3			US-PATENT-CLASS-324-78D			US-PATENT-CLASS-222-193
N74-10474*	c 37	US-PATENT-CLASS-235-92CA	N74-12813*	c 25	US-PATENT-CLASS-3773,038	N74-13179*	c 37	US-PATENT-CLASS-3776,432
		US-PATENT-CLASS-235-92DM			NASA-CASE-MFS-21115-1			NASA-CASE-LEW-10805-2
		US-PATENT-CLASS-307-225R			US-PATENT-APPL-SN-266930			US-PATENT-APPL-SN-233743
		US-PATENT-CLASS-328-48			US-PATENT-CLASS-222-309			US-PATENT-APPL-SN-29917
		US-PATENT-CLASS-3764,790			US-PATENT-CLASS-222-340			US-PATENT-CLASS-29-182
N74-10521*	c 26	US-PATENT-CLASS-328-48	N74-12887*	c 33	US-PATENT-CLASS-222-387	N74-13420*	c 04	US-PATENT-CLASS-29-420.5
		NASA-CASE-MFS-20335-1			US-PATENT-CLASS-222-514			US-PATENT-CLASS-75-200
		US-PATENT-APPL-SN-238263			US-PATENT-CLASS-3777,942			US-PATENT-CLASS-75-213
		US-PATENT-CLASS-73-67.8S			NASA-CASE-ARC-10464-1			US-PATENT-CLASS-75-214
		US-PATENT-CLASS-3765,229			US-PATENT-APPL-SN-198472			US-PATENT-CLASS-75-226
N74-10907*	c 05	US-PATENT-CLASS-3765,229	N74-12912*	c 32	US-PATENT-CLASS-260-2.5AM	N74-13436*	c 70	US-PATENT-CLASS-775,101
		NASA-CASE-LEW-10326-3			US-PATENT-CLASS-3772,216			NASA-CASE-NPO-11317-2
		US-PATENT-APPL-SN-99901			NASA-CASE-LAR-10551-1			US-PATENT-APPL-SN-187143
		US-PATENT-CLASS-277-25			US-PATENT-APPL-SN-191301			US-PATENT-APPL-SN-34989
		US-PATENT-CLASS-277-27			US-PATENT-CLASS-128-191R			US-PATENT-CLASS-179-100.2CH
N74-10942*	c 08	US-PATENT-CLASS-277-96	N74-12913*	c 33	US-PATENT-CLASS-23-252R	N74-14133*	c 31	US-PATENT-CLASS-250-205
		US-PATENT-CLASS-3767,212			US-PATENT-CLASS-23-281			US-PATENT-CLASS-250-217
		NASA-CASE-LEW-10805-3			US-PATENT-CLASS-23-288F			US-PATENT-CLASS-340-174.1M
		US-PATENT-APPL-SN-266928			US-PATENT-CLASS-23-288F			US-PATENT-CLASS-340-174YC
		US-PATENT-APPL-SN-29917			US-PATENT-CLASS-423-231			US-PATENT-CLASS-350-151
N74-10975*	c 52	US-PATENT-CLASS-148-126	N74-12951*	c 33	US-PATENT-CLASS-55-510	N74-14784*	c 44	US-PATENT-CLASS-778,791
		US-PATENT-CLASS-29-420.5			US-PATENT-CLASS-55-518			NASA-CASE-LEW-11262-1
		US-PATENT-CLASS-75-200			US-PATENT-CLASS-3771,959			US-PATENT-APPL-SN-136008
		US-PATENT-CLASS-75-226			NASA-CASE-ARC-10180-1			US-PATENT-CLASS-204-192
		US-PATENT-CLASS-75-226			US-PATENT-APPL-SN-136253			US-PATENT-CLASS-3772,174
N74-11000*	c 32	US-PATENT-CLASS-765,958	N74-12988*	c 60	US-PATENT-CLASS-260-2.5L	N74-13502*	c 20	NASA-CASE-FRC-10049-1
		NASA-CASE-XMF-02263			US-PATENT-CLASS-3772,220			US-PATENT-APPL-SN-232021
		US-PATENT-APPL-SN-78766			NASA-CASE-NPO-11905-1			US-PATENT-CLASS-235-150.27
		US-PATENT-CLASS-D71-1			US-PATENT-APPL-SN-290030			US-PATENT-CLASS-235-150.22
		US-PATENT-DES-228,688			US-PATENT-CLASS-178-88			US-PATENT-CLASS-235-150.26
N74-11049*	c 33	US-PATENT-CLASS-343-909	N74-12988*	c 60	US-PATENT-CLASS-325-320	N74-14845*	c 54	US-PATENT-CLASS-244-77A
		NASA-CASE-MSC-12394-1			US-PATENT-CLASS-329-104			US-PATENT-CLASS-244-77B
		US-PATENT-APPL-SN-341662			US-PATENT-CLASS-329-122			US-PATENT-CLASS-343-108R
		US-PATENT-CLASS-244-83			US-PATENT-CLASS-329-126			US-PATENT-CLASS-3776,455
		US-PATENT-CLASS-318-580			US-PATENT-CLASS-3772,272			NASA-CASE-LAR-10385-2
N74-11050*	c 33	US-PATENT-CLASS-318-628	N74-12991*	c 33	US-PATENT-CLASS-14053-1	N74-14920*	c 62	US-PATENT-APPL-SN-239803
		US-PATENT-CLASS-3771,037			US-PATENT-APPL-SN-266899			US-PATENT-APPL-SN-38816
		NASA-CASE-MSC-13972-1			US-PATENT-CLASS-328-123			US-PATENT-CLASS-117-106A
		US-PATENT-APPL-SN-200040			US-PATENT-CLASS-340-173CR			US-PATENT-CLASS-117-33.3
		US-PATENT-CLASS-128-2S			US-PATENT-CLASS-340-173LM			US-PATENT-CLASS-3779,788
N74-11283*	c 35	US-PATENT-CLASS-73-149	N74-12991*	c 33	US-PATENT-CLASS-3778,786	N74-14920*	c 62	NASA-CASE-LEW-11058-1
		US-PATENT-CLASS-3769,834			NASA-CASE-NPO-11850-1			US-PATENT-APPL-SN-233519
		NASA-CASE-NPO-13171-1			US-PATENT-APPL-SN-186700			US-PATENT-CLASS-60-258
		US-PATENT-APPL-SN-290915			US-PATENT-CLASS-343-18B			US-PATENT-CLASS-60-259
		US-PATENT-CLASS-343-781			US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-3777,490

		US-PATENT-CLASS-235-153AK			US-PATENT-CLASS-73-67.8S			US-PATENT-APPL-SN-201700
		US-PATENT-3,783,250			US-PATENT-3,777,552			US-PATENT-CLASS-324-102
N74-14935*	c 33	NASA-CASE-MFS-21462-1	N74-15145*	c 36	NASA-CASE-NPO-11856-1			US-PATENT-CLASS-324-118
		US-PATENT-APPL-SN-239576			US-PATENT-APPL-SN-235268			US-PATENT-CLASS-329-50
		US-PATENT-CLASS-219-477			US-PATENT-CLASS-250-217SS	N74-17955*	c 09	US-PATENT-3,795,862
		US-PATENT-CLASS-219-539			US-PATENT-CLASS-331-94.5K			NASA-CASE-LAR-10812-1
		US-PATENT-CLASS-338-320			US-PATENT-CLASS-331-94.5S			US-PATENT-APPL-SN-263815
		US-PATENT-3,732,397			US-PATENT-CLASS-350-6			US-PATENT-CLASS-73-147
N74-14939*	c 33	NASA-CASE-FRC-10072-1			US-PATENT-CLASS-356-152			US-PATENT-3,791,207
		US-PATENT-APPL-SN-162100			US-PATENT-CLASS-356-4	N74-18088*	c 35	NASA-CASE-LAR-11027-1
		US-PATENT-CLASS-330-10			US-PATENT-CLASS-356-5			US-PATENT-APPL-SN-275118
		US-PATENT-CLASS-330-35			US-PATENT-3,781,111			US-PATENT-CLASS-250-338
		US-PATENT-CLASS-330-9	N74-15146*	c 35	NASA-CASE-MFS-21455-1			US-PATENT-CLASS-250-370
		US-PATENT-3,783,399			US-PATENT-APPL-SN-281877			US-PATENT-CLASS-250-371
N74-14956*	c 33	NASA-CASE-MSC-17832-1			US-PATENT-CLASS-350-3.5			US-PATENT-3,790,795
		US-PATENT-APPL-SN-293727			US-PATENT-CLASS-356-106	N74-18089*	c 31	NASA-CASE-LAR-10318-1
		US-PATENT-CLASS-307-127			US-PATENT-CLASS-73-71.3			US-PATENT-APPL-SN-224489
		US-PATENT-CLASS-317-33SC			US-PATENT-3,782,825			US-PATENT-CLASS-156-245
		US-PATENT-CLASS-317-43	N74-15395*	c 38	NASA-CASE-MFS-21233-1			US-PATENT-CLASS-156-247
		US-PATENT-CLASS-317-46			US-PATENT-APPL-SN-246056			US-PATENT-CLASS-156-285
		US-PATENT-CLASS-317-47			US-PATENT-CLASS-324-40			US-PATENT-CLASS-156-309
		US-PATENT-CLASS-317-48			US-PATENT-CLASS-73-67.5R			US-PATENT-3,793,109
		US-PATENT-3,783,354			US-PATENT-CLASS-73-71.5U	N74-18090*	c 35	NASA-CASE-NPO-13160-1
N74-15089*	c 19	NASA-CASE-LAR-10586-1			US-PATENT-3,782,177			US-PATENT-APPL-SN-359157
		US-PATENT-APPL-SN-289049	N74-15453*	c 07	NASA-CASE-LEW-11569-1			US-PATENT-CLASS-321-8R
		US-PATENT-CLASS-102-70.2R			US-PATENT-APPL-SN-316618			US-PATENT-CLASS-324-57R
		US-PATENT-CLASS-244-1SA			US-PATENT-CLASS-181-43			US-PATENT-3,795,858
		US-PATENT-CLASS-244-3.16			US-PATENT-3,780,827	N74-18123*	c 37	NASA-CASE-LAR-10634-1
		US-PATENT-CLASS-250-203R	N74-15652*	c 34	NASA-CASE-LAR-10105-1			US-PATENT-APPL-SN-214084
		US-PATENT-CLASS-250-237R			US-PATENT-APPL-SN-170680			US-PATENT-CLASS-23-253PC
		US-PATENT-3,780,966			US-PATENT-CLASS-73-86			US-PATENT-CLASS-23-259
N74-15090*	c 35	NASA-CASE-NPO-11432-2			US-PATENT-3,782,181			US-PATENT-CLASS-259-72
		US-PATENT-APPL-SN-258152	N74-15778*	c 51	NASA-CASE-ARC-10302-1			US-PATENT-CLASS-312-209
		US-PATENT-APPL-SN-88435			US-PATENT-APPL-SN-203271			US-PATENT-CLASS-356-197
		US-PATENT-CLASS-250-211J			US-PATENT-CLASS-119-51.13			US-PATENT-CLASS-356-85
		US-PATENT-CLASS-250-214			US-PATENT-CLASS-119-51.5			US-PATENT-3,790,347
		US-PATENT-CLASS-317-235N			US-PATENT-CLASS-119-51R	N74-18124*	c 31	NASA-CASE-LAR-10489-1
		US-PATENT-3,781,549			US-PATENT-CLASS-119-52AF			US-PATENT-APPL-SN-198763
N74-15091*	c 35	NASA-CASE-LAR-11155-1			US-PATENT-CLASS-119-54			US-PATENT-CLASS-264-102
		US-PATENT-APPL-SN-313381			US-PATENT-CLASS-221-265			US-PATENT-3,790,650
		US-PATENT-CLASS-250-360			US-PATENT-3,782,334	N74-18125*	c 37	NASA-CASE-MFS-21309-1
		US-PATENT-CLASS-250-361	N74-15831*	c 35	NASA-CASE-GSC-11553-1			US-PATENT-APPL-SN-244519
		US-PATENT-CLASS-250-369			US-PATENT-APPL-SN-177985			US-PATENT-CLASS-180-79.3
		US-PATENT-CLASS-250-492			US-PATENT-CLASS-178-6.7R			US-PATENT-CLASS-301-5P
		US-PATENT-3,781,562			US-PATENT-CLASS-219-216			US-PATENT-3,789,947
N74-15092*	c 35	NASA-CASE-LAR-10862-1			US-PATENT-CLASS-219-388	N74-18126*	c 37	NASA-CASE-MFS-21364-1
		US-PATENT-APPL-SN-271951			US-PATENT-CLASS-34-162			US-PATENT-APPL-SN-214006
		US-PATENT-CLASS-73-4V			US-PATENT-CLASS-346-108			US-PATENT-CLASS-156-331
		US-PATENT-3,780,563			US-PATENT-CLASS-346-138			US-PATENT-CLASS-161-182
N74-15093*	c 35	NASA-CASE-ARC-10442-1			US-PATENT-CLASS-346-24			US-PATENT-CLASS-161-192
		US-PATENT-APPL-SN-280032			US-PATENT-CLASS-95-89R			US-PATENT-CLASS-161-42
		US-PATENT-CLASS-165-109			US-PATENT-3,781,902			US-PATENT-CLASS-161-43
		US-PATENT-CLASS-165-2	N74-16135*	c 35	NASA-CASE-LAR-10595-1			US-PATENT-CLASS-161-93
		US-PATENT-CLASS-259-DIG.18			US-PATENT-APPL-SN-273240			US-PATENT-CLASS-260-2R
		US-PATENT-CLASS-259-60			US-PATENT-CLASS-340-12R			US-PATENT-CLASS-264-135
		US-PATENT-CLASS-62-45			US-PATENT-CLASS-340-5R			US-PATENT-CLASS-264-136
		US-PATENT-3,782,698			US-PATENT-CLASS-340-8R			US-PATENT-CLASS-264-257
N74-15094*	c 35	NASA-CASE-NPO-13044-1			US-PATENT-3,783,443	N74-18127*	c 37	US-PATENT-3,790,432
		US-PATENT-APPL-SN-305012	N74-17153*	c 35	NASA-CASE-MFS-21087-1			NASA-CASE-MFS-21481-1
		US-PATENT-CLASS-73-497			US-PATENT-APPL-SN-149283			US-PATENT-APPL-SN-266771
		US-PATENT-CLASS-73-517B			US-PATENT-CLASS-350-3.5			US-PATENT-CLASS-128-25R
		US-PATENT-CLASS-74-5.6			US-PATENT-3,752,556			US-PATENT-CLASS-272-73
		US-PATENT-3,782,205	N74-17283*	c 27	NASA-CASE-MFS-20486-2			US-PATENT-CLASS-272-80
N74-15095*	c 74	NASA-CASE-MSC-14096-1			US-PATENT-APPL-SN-292382			US-PATENT-CLASS-74-594.6
		US-PATENT-APPL-SN-242662			US-PATENT-APPL-SN-84212			US-PATENT-CLASS-74-594.7
		US-PATENT-CLASS-350-236			US-PATENT-CLASS-260-29.6S			US-PATENT-3,788,163
		US-PATENT-CLASS-350-285			US-PATENT-3,784,499	N74-18128*	c 37	NASA-CASE-LEW-11387-1
		US-PATENT-CLASS-350-7	N74-17853*	c 54	NASA-CASE-MFS-21163-1			US-PATENT-APPL-SN-247090
		US-PATENT-CLASS-356-216			US-PATENT-APPL-SN-266925			US-PATENT-CLASS-29-482
		US-PATENT-CLASS-356-43			US-PATENT-CLASS-222-324			US-PATENT-CLASS-29-488
		US-PATENT-3,782,835			US-PATENT-CLASS-224-444			US-PATENT-CLASS-29-497
N74-15125*	c 37	NASA-CASE-XLE-10326-4			US-PATENT-3,790,037			US-PATENT-CLASS-29-498
		US-PATENT-APPL-SN-220251	N74-17885*	c 35	NASA-CASE-MSC-13855-1			US-PATENT-3,787,959
		US-PATENT-APPL-SN-54540			US-PATENT-APPL-SN-196931	N74-18323*	c 35	NASA-CASE-MFS-21136-1
		US-PATENT-APPL-SN-723465			US-PATENT-CLASS-325-38B			US-PATENT-APPL-SN-262430
		US-PATENT-CLASS-277-27			US-PATENT-CLASS-332-11D			US-PATENT-CLASS-308-10
		US-PATENT-CLASS-277-91			US-PATENT-CLASS-340-347AD			US-PATENT-CLASS-74-5.7
		US-PATENT-3,782,737			US-PATENT-3,795,900			US-PATENT-3,763,708
N74-15126*	c 35	NASA-CASE-ARC-10441-1	N74-17927*	c 33	NASA-CASE-NPO-13138-1	N74-18551*	c 25	NASA-CASE-LAR-11053-1
		US-PATENT-APPL-SN-280029			US-PATENT-APPL-SN-335201			US-PATENT-APPL-SN-281875
		US-PATENT-CLASS-259-98			US-PATENT-CLASS-328-155			US-PATENT-CLASS-73-15R
		US-PATENT-CLASS-417-470			US-PATENT-CLASS-333-16			US-PATENT-3,789,654
		US-PATENT-CLASS-417-471			US-PATENT-CLASS-333-18	N74-18552*	c 34	NASA-CASE-NPO-11120-1
		US-PATENT-3,782,699			US-PATENT-3,790,906			US-PATENT-APPL-SN-39343
N74-15127*	c 35	NASA-CASE-NPO-11682-1	N74-17928*	c 33	NASA-CASE-NPO-11966-1			US-PATENT-CLASS-165-105
		US-PATENT-APPL-SN-187365			NASA-CASE-NPO-13159-1			US-PATENT-CLASS-267-166
		US-PATENT-CLASS-23-284			US-PATENT-APPL-SN-284245			US-PATENT-CLASS-29-157.3R
		US-PATENT-3,782,904			US-PATENT-CLASS-100-8			US-PATENT-3,789,920
N74-15128*	c 37	NASA-CASE-LEW-11087-2			US-PATENT-CLASS-336-210	N74-19310*	c 72	NASA-CASE-HQN-10740-1
		US-PATENT-APPL-SN-201904			US-PATENT-3,792,399			US-PATENT-APPL-SN-266943
		US-PATENT-APPL-SN-280390	N74-17929*	c 33	NASA-CASE-ARC-10197-1			US-PATENT-CLASS-356-106R
		US-PATENT-CLASS-29-148.4A			US-PATENT-APPL-SN-310624			US-PATENT-CLASS-356-112
		US-PATENT-CLASS-29-148.4B			US-PATENT-CLASS-317-16			US-PATENT-CLASS-356-28
		US-PATENT-3,781,958			US-PATENT-CLASS-317-31			US-PATENT-3,795,448
N74-15130*	c 38	NASA-CASE-MFS-20767-1			US-PATENT-3,795,840	N74-19528*	c 09	NASA-CASE-LAR-10426-1
		US-PATENT-APPL-SN-196898	N74-17930*	c 33	NASA-CASE-NUC-10107-1			US-PATENT-APPL-SN-239575

		US-PATENT-CLASS-73-15.6	N74-20813*	c 32	NASA-CASE-FRC-10071-1		US-PATENT-3,797,098
		US-PATENT-CLASS-73-91			US-PATENT-APPL-SN-307727	N74-21058*	c 37
		US-PATENT-3,795,134			US-PATENT-CLASS-178-7.7		NASA-CASE-MFS-22411-1
N74-19692*	c 44	NASA-CASE-GSC-11367-1			US-PATENT-CLASS-315-18		US-PATENT-APPL-SN-382262
		US-PATENT-APPL-SN-236985			US-PATENT-CLASS-315-22		US-PATENT-CLASS-260-448.2N
		US-PATENT-CLASS-136-36			US-PATENT-3,803,445	N74-21059*	c 31
		US-PATENT-3,759,747			NASA-CASE-ERC-10180-1		NASA-CASE-LAR-10409-1
N74-19693*	c 44	NASA-CASE-NPO-11806-1	N74-20836*	c 60	US-PATENT-APPL-SN-838278		US-PATENT-APPL-SN-340864
		US-PATENT-APPL-SN-228163			US-PATENT-CLASS-235-164		US-PATENT-CLASS-29-423
		US-PATENT-CLASS-136-20			US-PATENT-3,803,393	N74-21060*	c 37
		US-PATENT-CLASS-136-30			NASA-CASE-XLE-2529-3		NASA-CASE-NPO-13105-1
		US-PATENT-3,790,409	N74-20859*	c 33	US-PATENT-APPL-SN-288856		US-PATENT-APPL-SN-283502
		NASA-CASE-ERC-10073-1			US-PATENT-APPL-SN-487929		US-PATENT-CLASS-60-25
N74-19769*	c 24	US-PATENT-APPL-SN-856253			US-PATENT-APPL-SN-848403		US-PATENT-3,798,896
		US-PATENT-CLASS-117-95			US-PATENT-CLASS-315-211	N74-21061*	c 37
		US-PATENT-3,796,592			US-PATENT-CLASS-315-228		NASA-CASE-LEW-11076-1
N74-19788*	c 32	NASA-CASE-NPO-11820-1			US-PATENT-CLASS-331-94.5D		US-PATENT-APPL-SN-238264
		US-PATENT-APPL-SN-266912			US-PATENT-CLASS-332-7.51		US-PATENT-CLASS-308-73
		US-PATENT-CLASS-307-237			US-PATENT-3,806,835	N74-21062*	c 35
		US-PATENT-CLASS-328-160	N74-20860*	c 33	NASA-CASE-GSC-11446-1		NASA-CASE-LAR-10295-1
		US-PATENT-CLASS-328-168			US-PATENT-APPL-SN-263230		US-PATENT-APPL-SN-221685
		US-PATENT-CLASS-328-172			US-PATENT-CLASS-343-DIG.2		US-PATENT-CLASS-73-12
		US-PATENT-CLASS-333-14			US-PATENT-CLASS-343-100SA		US-PATENT-CLASS-73-432
		US-PATENT-3,800,237			US-PATENT-CLASS-343-100ST	N74-21063*	c 37
N74-19790*	c 32	NASA-CASE-MFS-21540-1			US-PATENT-CLASS-343-854		NASA-CASE-LEW-10698-1
		US-PATENT-APPL-SN-333912			US-PATENT-3,806,932		US-PATENT-APPL-SN-30498
		US-PATENT-CLASS-178-7.1	N74-20861*	c 33	NASA-CASE-GSC-11560-1		US-PATENT-CLASS-106-52
		US-PATENT-CLASS-325-148			US-PATENT-APPL-SN-361906		US-PATENT-CLASS-117-129
		US-PATENT-3,800,224			US-PATENT-CLASS-350-269		US-PATENT-CLASS-161-196
N74-19870*	c 44	NASA-CASE-MFS-21470-1			US-PATENT-CLASS-354-234		US-PATENT-CLASS-65-DIG.11
		US-PATENT-APPL-SN-340871			US-PATENT-CLASS-95-53EA	N74-21064*	c 37
		US-PATENT-CLASS-325-62			US-PATENT-3,804,506		NASA-CASE-LEW-11087-3
		US-PATENT-CLASS-333-17			NASA-CASE-GSC-11513-1		US-PATENT-APPL-SN-201904
		US-PATENT-CLASS-343-17.7	N74-20862*	c 33	US-PATENT-APPL-SN-315069		US-PATENT-APPL-SN-346361
		US-PATENT-CLASS-343-7.5			US-PATENT-CLASS-331-108A		US-PATENT-CLASS-308-188
		US-PATENT-3,795,910			US-PATENT-CLASS-331-115		US-PATENT-CLASS-308-191
N74-20008*	c 74	NASA-CASE-GSC-11188-3			US-PATENT-CLASS-331-116R	N74-21065*	c 37
		US-PATENT-APPL-SN-244566			US-PATENT-CLASS-331-159		NASA-CASE-NPO-11951-1
		US-PATENT-APPL-SN-80029			US-PATENT-3,806,831		US-PATENT-APPL-SN-287150
		US-PATENT-CLASS-117-45			NASA-CASE-GSC-11909		US-PATENT-CLASS-137-628
		US-PATENT-3,799,793	N74-20863*	c 32	US-PATENT-APPL-SN-244158		US-PATENT-CLASS-251-120
N74-20009*	c 36	NASA-CASE-NPO-11861-1			US-PATENT-CLASS-343-730		US-PATENT-CLASS-251-212
		US-PATENT-APPL-SN-266911			US-PATENT-CLASS-343-786		US-PATENT-3,802,660
		US-PATENT-CLASS-178-DIG.1			US-PATENT-CLASS-343-797	N74-21091*	c 36
		US-PATENT-CLASS-178-6			US-PATENT-CLASS-343-853		NASA-CASE-GSC-11262-1
		US-PATENT-CLASS-178-7.6			US-PATENT-3,803,617		US-PATENT-APPL-SN-162380
		US-PATENT-3,800,074	N74-20864*	c 32	NASA-CASE-GSC-11428-1		US-PATENT-CLASS-250-204
N74-20063*	c 37	NASA-CASE-LAR-10129-2			US-PATENT-APPL-SN-292685		US-PATENT-CLASS-33-285
		US-PATENT-APPL-SN-319410			US-PATENT-CLASS-343-708		US-PATENT-CLASS-356-141
		US-PATENT-APPL-SN-99201			US-PATENT-CLASS-343-769		US-PATENT-CLASS-356-152
		US-PATENT-CLASS-312-1			US-PATENT-CLASS-343-853		US-PATENT-CLASS-356-172
		US-PATENT-3,796,473			US-PATENT-3,805,266		US-PATENT-3,804,525
N74-20329*	c 76	NASA-CASE-GSC-11425-1	N74-21014*	c 71	NASA-CASE-HQN-10832-1	N74-21156*	c 27
		US-PATENT-APPL-SN-206266			US-PATENT-APPL-SN-301417		NASA-CASE-ARC-10592-1
		US-PATENT-CLASS-148-1.5			US-PATENT-CLASS-178-DIG.32		US-PATENT-APPL-SN-321179
		US-PATENT-3,799,813			US-PATENT-CLASS-178-5.8R		US-PATENT-CLASS-260-46.5E
N74-20646*	c 02	NASA-CASE-LEW-11188-1			US-PATENT-CLASS-178-7.2	N74-21300*	c 70
		US-PATENT-APPL-SN-152328			US-PATENT-CLASS-340-407		NASA-CASE-ARC-10516-1
		US-PATENT-CLASS-137-15.1			US-PATENT-CLASS-35-35A		US-PATENT-APPL-SN-267768
		US-PATENT-CLASS-137-15.2			US-PATENT-3,800,082		US-PATENT-CLASS-350-270
		US-PATENT-CLASS-244-53B			NASA-CASE-LAR-10626-1		US-PATENT-CLASS-354-234
		US-PATENT-3,799,475	N74-21015*	c 19	US-PATENT-APPL-SN-202750	N74-21304*	c 74
N74-20725*	c 54	NASA-CASE-MFS-22102-1			US-PATENT-CLASS-33-1SA		NASA-CASE-GSC-11353-1
		US-PATENT-APPL-SN-341621			US-PATENT-CLASS-33-46R		US-PATENT-APPL-SN-260241
		US-PATENT-CLASS-4-10			US-PATENT-3,798,778		US-PATENT-CLASS-250-231SE
		US-PATENT-CLASS-4-120			NASA-CASE-MFS-21660-1		US-PATENT-CLASS-350-299
		US-PATENT-3,805,303	N74-21017*	c 35	US-PATENT-APPL-SN-310616		US-PATENT-CLASS-356-152
N74-20726*	c 52	NASA-CASE-ARC-10597-1			US-PATENT-CLASS-324-83Q	N74-21850*	c 33
		US-PATENT-APPL-SN-281876			US-PATENT-3,806,802		NASA-CASE-GSC-11602-1
		US-PATENT-CLASS-128-2V			NASA-CASE-LEW-10981-1		US-PATENT-APPL-SN-298157
		US-PATENT-CLASS-73-67.9	N74-21018*	c 35	US-PATENT-APPL-SN-214089		US-PATENT-CLASS-315-10
		US-PATENT-3,802,253			US-PATENT-CLASS-310-11		US-PATENT-CLASS-315-12
N74-20728*	c 52	NASA-CASE-MFS-21415-1			US-PATENT-CLASS-324-34FL	N74-21851*	c 33
		US-PATENT-APPL-SN-318152			US-PATENT-CLASS-73-194EM		NASA-CASE-ARC-10596-1
		US-PATENT-CLASS-128-2.07			US-PATENT-3,802,262		US-PATENT-APPL-SN-267862
		US-PATENT-CLASS-128-2.08			NASA-CASE-GSC-11600-1		US-PATENT-CLASS-330-28
		US-PATENT-CLASS-73-23	N74-21019*	c 35	US-PATENT-APPL-SN-318357		US-PATENT-CLASS-330-59
		US-PATENT-CLASS-73-421.5R			US-PATENT-CLASS-73-1F	N74-22095*	c 35
		US-PATENT-3,799,149			US-PATENT-3,802,249		NASA-CASE-NPO-10617-1
N74-20809*	c 32	NASA-CASE-MS-12462-1			NASA-CASE-LEW-11388-2		US-PATENT-APPL-SN-828920
		US-PATENT-APPL-SN-274360	N74-21055*	c 37	US-PATENT-APPL-SN-289033		US-PATENT-CLASS-73-190H
		US-PATENT-CLASS-178-88			US-PATENT-APPL-SN-293726		US-PATENT-3,648,516
		US-PATENT-CLASS-325-320			US-PATENT-CLASS-29-487	N74-22096*	c 32
		US-PATENT-CLASS-325-423			US-PATENT-CLASS-29-494		NASA-CASE-XLE-04791
		US-PATENT-3,800,227			US-PATENT-CLASS-29-498		US-PATENT-APPL-SN-582213
N74-20810*	c 32	NASA-CASE-MS-12494-1			US-PATENT-CLASS-29-504		US-PATENT-CLASS-330-103
		US-PATENT-APPL-SN-304705			US-PATENT-3,798,748		US-PATENT-3,404,348
		US-PATENT-CLASS-325-321	N74-21056*	c 37	NASA-CASE-LAR-10688-1	N74-22136*	c 18
		US-PATENT-CLASS-325-419			US-PATENT-APPL-SN-285705		NASA-CASE-MFS-20922-1
		US-PATENT-3,806,816			US-PATENT-CLASS-235-151		US-PATENT-APPL-SN-220274
N74-20811*	c 32	NASA-CASE-NPO-13103-1			US-PATENT-CLASS-235-92PE		US-PATENT-CLASS-244-15S
		US-PATENT-APPL-SN-338484			US-PATENT-CLASS-235-92SB		US-PATENT-CLASS-49-68
		US-PATENT-CLASS-325-320			US-PATENT-3,800,253		US-PATENT-CLASS-61-83
		US-PATENT-CLASS-325-419			NASA-CASE-LAR-10941-1	N74-22771*	c 52
		US-PATENT-CLASS-329-122	N74-21057*	c 37	US-PATENT-APPL-SN-289048		NASA-CASE-ARC-10447-1
		US-PATENT-3,806,815			US-PATENT-CLASS-29-470.1		US-PATENT-APPL-SN-311175
							US-PATENT-CLASS-128-214E
							US-PATENT-CLASS-235-151.3
							US-PATENT-3,809,871
						N74-22814*	c 33
							NASA-CASE-NPO-13081-1

F-39

N74-27902*	c 31	NASA-CASE-GSC-11445-1 US-PATENT-APPL-SN-248471 US-PATENT-CLASS-236-49 US-PATENT-CLASS-98-39 US-PATENT-3,818,814	N74-31269*	c 20	US-PATENT-3,827,288 NASA-CASE-LEW-11646-1 US-PATENT-APPL-SN-292686 US-PATENT-CLASS-204-192 US-PATENT-3,826,729	N74-33218*	c 07	NASA-CASE-ARC-10712-1 US-PATENT-APPL-SN-344410 US-PATENT-CLASS-181-33HC US-PATENT-CLASS-239-265.11 US-PATENT-3,830,431
N74-27903*	c 37	NASA-CASE-MSC-12549-1 US-PATENT-APPL-SN-301039 US-PATENT-CLASS-244-1SD US-PATENT-3,820,741	N74-31270*	c 07	NASA-CASE-LAR-10642-1 US-PATENT-APPL-SN-266820 US-PATENT-CLASS-137-15.1 US-PATENT-CLASS-415-181 US-PATENT-3,829,237	N74-33378*	c 25	NASA-CASE-MFS-21675-1 US-PATENT-APPL-SN-392823 US-PATENT-CLASS-23-277C US-PATENT-CLASS-431-202 US-PATENT-3,833,336
N74-27904*	c 37	NASA-CASE-LEW-11672-1 US-PATENT-APPL-SN-305639 US-PATENT-CLASS-417-52 US-PATENT-3,819,299	N74-32418*	c 07	NASA-CASE-LAR-11141-1 US-PATENT-APPL-SN-359957 US-PATENT-CLASS-181-33C US-PATENT-CLASS-181-33F US-PATENT-CLASS-181-33H US-PATENT-CLASS-181-33L US-PATENT-CLASS-181-42 US-PATENT-3,830,335	N74-33379*	c 44	NASA-CASE-ARC-10461-1 US-PATENT-APPL-SN-336319 US-PATENT-CLASS-60-527 US-PATENT-3,830,060
N74-27905*	c 37	NASA-CASE-LAR-10450-1 US-PATENT-APPL-SN-289017 US-PATENT-CLASS-51-225 US-PATENT-CLASS-51-234 US-PATENT-CLASS-51-97R US-PATENT-3,820,286	N74-32546*	c 54	NASA-CASE-MSC-11072 US-PATENT-APPL-SN-689455 US-PATENT-CLASS-156-218 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-2-82 US-PATENT-3,832,735	N74-34638*	c 33	NASA-CASE-MFS-22343-1 US-PATENT-APPL-SN-329237 US-PATENT-CLASS-307-18 US-PATENT-CLASS-307-295 US-PATENT-CLASS-307-304 US-PATENT-CLASS-307-35 US-PATENT-3,840,829
N74-28097*	c 35	NASA-CASE-GSC-11479-1 US-PATENT-APPL-SN-293739 US-PATENT-CLASS-244-1SA US-PATENT-CLASS-74-5.5 US-PATENT-3,818,767	N74-32598*	c 32	NASA-CASE-MSC-14070-1 US-PATENT-APPL-SN-266940 US-PATENT-CLASS-340-146.1AQ US-PATENT-3,831,142	N74-34672*	c 85	NASA-CASE-LAR-10256-1 US-PATENT-APPL-SN-220785 US-PATENT-CLASS-104-138R US-PATENT-CLASS-104-23FS US-PATENT-CLASS-238-134 US-PATENT-3,837,285
N74-28226*	c 07	NASA-CASE-LEW-11402-1 US-PATENT-APPL-SN-219806 US-PATENT-CLASS-415-181 US-PATENT-CLASS-416-223 US-PATENT-CLASS-416-237 US-PATENT-3,820,918	N74-32660*	c 33	NASA-CASE-GSC-11617-1 US-PATENT-APPL-SN-402865 US-PATENT-CLASS-330-4.9 US-PATENT-CLASS-330-53 US-PATENT-3,833,857	N74-34857*	c 35	NASA-CASE-LAR-11428-1 US-PATENT-APPL-SN-188836 US-PATENT-APPL-SN-357126 US-PATENT-CLASS-250-281 US-PATENT-CLASS-250-295 US-PATENT-3,835,318
N74-29410*	c 19	NASA-CASE-MFS-21577-1 US-PATENT-APPL-SN-343308 US-PATENT-CLASS-250-372 US-PATENT-CLASS-250-394 US-PATENT-3,825,760	N74-32711*	c 33	NASA-CASE-MSC-14130-1 US-PATENT-APPL-SN-373587 US-PATENT-CLASS-307-267 US-PATENT-CLASS-328-58 US-PATENT-3,831,098	N75-12086*	c 25	NASA-CASE-ARC-10469-1 US-PATENT-APPL-SN-281908 US-PATENT-CLASS-195-103.5R US-PATENT-3,846,243
N74-29556*	c 33	NASA-CASE-KSC-10769-1 US-PATENT-APPL-SN-374583 US-PATENT-CLASS-318-602 US-PATENT-CLASS-318-603 US-PATENT-CLASS-318-664 US-PATENT-3,826,964	N74-32712*	c 33	NASA-CASE-NPO-11948-1 US-PATENT-APPL-SN-306652 US-PATENT-CLASS-307-230 US-PATENT-CLASS-330-69 US-PATENT-CLASS-333-80R US-PATENT-3,831,117	N75-12087*	c 25	NASA-CASE-ARC-10643-1 US-PATENT-APPL-SN-513389 US-PATENT-CLASS-117-161UA US-PATENT-CLASS-117-161UN US-PATENT-CLASS-117-161UZ US-PATENT-CLASS-117-93.1GD US-PATENT-CLASS-204-177 US-PATENT-CLASS-210-500 US-PATENT-CLASS-264-217 US-PATENT-CLASS-264-22 US-PATENT-3,847,652
N74-30001*	c 24	NASA-CASE-LAR-10416-1 US-PATENT-APPL-SN-251752 US-PATENT-CLASS-156-94 US-PATENT-3,814,645	N74-32877*	c 35	NASA-CASE-LAR-10806-1 US-PATENT-APPL-SN-322998 US-PATENT-CLASS-33-1M US-PATENT-CLASS-33-23R US-PATENT-CLASS-338-89 US-PATENT-CLASS-340-347AD US-PATENT-CLASS-346-33R US-PATENT-3,832,781	N75-12161*	c 31	NASA-CASE-MFS-20775-1 US-PATENT-APPL-SN-356664 US-PATENT-CLASS-118-49.1 US-PATENT-3,847,115
N74-30156*	c 75	NASA-CASE-ARC-10598-1 US-PATENT-APPL-SN-318151 US-PATENT-CLASS-356-201 US-PATENT-CLASS-356-43 US-PATENT-CLASS-356-73 US-PATENT-CLASS-356-85 US-PATENT-CLASS-356-87 US-PATENT-3,817,622	N74-32878*	c 35	NASA-CASE-LAR-11139-1 US-PATENT-APPL-SN-287149 US-PATENT-CLASS-73-182 US-PATENT-CLASS-73-388 US-PATENT-CLASS-73-8903 US-PATENT-3,832,903	N75-12222*	c 34	NASA-CASE-GSC-11619-1 US-PATENT-APPL-SN-397476 US-PATENT-CLASS-138-113 US-PATENT-CLASS-138-114 US-PATENT-CLASS-138-148 US-PATENT-CLASS-165-1 US-PATENT-CLASS-165-105 US-PATENT-CLASS-165-47 US-PATENT-CLASS-220-15 US-PATENT-CLASS-244-1SC US-PATENT-3,847,208
N74-30421*	c 08	NASA-CASE-LAR-10753-1 US-PATENT-APPL-SN-289018 US-PATENT-CLASS-244-327 US-PATENT-CLASS-244-90R US-PATENT-CLASS-244-91 US-PATENT-3,826,448	N74-32879*	c 35	NASA-CASE-MSC-14187-1 US-PATENT-APPL-SN-326326 US-PATENT-CLASS-23-230L US-PATENT-CLASS-73-104 US-PATENT-CLASS-73-15.4 US-PATENT-CLASS-73-40.7 US-PATENT-3,830,094	N75-12270*	c 35	NASA-CASE-KSC-10750-1 US-PATENT-APPL-SN-346372 US-PATENT-CLASS-324-158T US-PATENT-CLASS-324-60C US-PATENT-3,848,190
N74-30502*	c 25	NASA-CASE-LEW-10906-1 US-PATENT-APPL-SN-245279 US-PATENT-APPL-SN-876588 US-PATENT-CLASS-204-157.1H US-PATENT-3,826,726	N74-32917*	c 31	NASA-CASE-NPO-13205-1 US-PATENT-APPL-SN-393525 US-PATENT-CLASS-425-28B US-PATENT-CLASS-425-35 US-PATENT-3,833,322	N75-12271*	c 35	NASA-CASE-MFS-20994-1 US-PATENT-APPL-SN-386789 US-PATENT-CLASS-128-2V US-PATENT-CLASS-73-67.1 US-PATENT-3,847,141
N74-30523*	c 32	NASA-CASE-NPO-11921-1 US-PATENT-APPL-SN-359039 US-PATENT-CLASS-179-15BC US-PATENT-CLASS-325-346 US-PATENT-3,828,138	N74-32918*	c 37	NASA-CASE-NPO-13157-1 US-PATENT-APPL-SN-370872 US-PATENT-CLASS-29-203H US-PATENT-CLASS-29-268 US-PATENT-3,832,764	N75-12272*	c 35	NASA-CASE-LAR-11069-1 US-PATENT-APPL-SN-326198 US-PATENT-CLASS-195-127 US-PATENT-3,841,973
N74-30524*	c 32	NASA-CASE-MSC-13912-1 US-PATENT-APPL-SN-310034 US-PATENT-CLASS-179-15AT US-PATENT-CLASS-179-15BY US-PATENT-3,828,137	N74-32919*	c 20	NASA-CASE-LEW-11118-1 US-PATENT-APPL-SN-289050 US-PATENT-CLASS-204-9 US-PATENT-3,832,290	N75-12273*	c 35	NASA-CASE-MFS-20506-1 US-PATENT-APPL-SN-328792 US-PATENT-CLASS-33-DIG.13 US-PATENT-CLASS-33-180R US-PATENT-CLASS-350-292 US-PATENT-3,842,509
N74-30597*	c 09	NASA-CASE-LAR-10550-1 US-PATENT-APPL-SN-261183 US-PATENT-CLASS-35-12E US-PATENT-3,824,707	N74-32920*	c 31	NASA-CASE-LAR-10489-2 US-PATENT-APPL-SN-198763 US-PATENT-APPL-SN-350300 US-PATENT-CLASS-249-145 US-PATENT-CLASS-249-184 US-PATENT-CLASS-249-83 US-PATENT-CLASS-249-95 US-PATENT-CLASS-425-128 US-PATENT-CLASS-425-415 US-PATENT-3,830,609	N75-12326*	c 37	NASA-CASE-LAR-11211-1 US-PATENT-APPL-SN-302681 US-PATENT-CLASS-29-470.1 US-PATENT-CLASS-29-475 US-PATENT-3,842,485
N74-30608*	c 34	NASA-CASE-LAR-10194-1 US-PATENT-APPL-SN-169962 US-PATENT-CLASS-55-159 US-PATENT-CLASS-55-199 US-PATENT-CLASS-55-43 US-PATENT-3,828,524	N74-32921*	c 37	NASA-CASE-LEW-11076-2 US-PATENT-APPL-SN-238264 US-PATENT-APPL-SN-346483 US-PATENT-CLASS-308-121 US-PATENT-3,830,552	N75-12616*	c 54	NASA-CASE-MFS-21611-1 US-PATENT-APPL-SN-403694 US-PATENT-CLASS-214-1CM US-PATENT-CLASS-307-149 US-PATENT-CLASS-308-174
N74-30886*	c 89	NASA-CASE-GSC-11569-1 US-PATENT-APPL-SN-293725 US-PATENT-CLASS-250-203R US-PATENT-CLASS-33-268 US-PATENT-CLASS-356-141 US-PATENT-CLASS-356-147 US-PATENT-3,827,807	N74-33209*	c 28	NASA-CASE-NPO-11975-1 US-PATENT-APPL-SN-329243 US-PATENT-CLASS-149-17			
N74-31148*	c 71	NASA-CASE-NPO-11623-1 US-PATENT-APPL-SN-235338 US-PATENT-CLASS-181.5R US-PATENT-CLASS-73-69 US-PATENT-CLASS-73-71.5R						

N75-12732*	c 74	US-PATENT-3,849,668 NASA-CASE-ARC-10448-2 US-PATENT-APPL-SN-374424 US-PATENT-CLASS-156-16 US-PATENT-CLASS-156-18 US-PATENT-CLASS-156-7 US-PATENT-CLASS-250-495 US-PATENT-3,847,689	N75-13539*	c 60	US-PATENT-3,850,169 NASA-CASE-ARC-10466-1 US-PATENT-APPL-SN-352382 US-PATENT-CLASS-235-156 US-PATENT-CLASS-235-197 US-PATENT-CLASS-324-77B US-PATENT-3,851,162	N75-16783*	c 35	US-PATENT-CLASS-117-93.3 US-PATENT-CLASS-156-89 US-PATENT-CLASS-156-99 US-PATENT-CLASS-29-472.7 US-PATENT-CLASS-29-473.1 US-PATENT-CLASS-65-43 US-PATENT-3,859,714
N75-12810*	c 76	NASA-CASE-LAR-11059-1 US-PATENT-APPL-SN-367294 US-PATENT-CLASS-73-32R US-PATENT-CLASS-73-432PS US-PATENT-3,842,656	N75-13625*	c 75	NASA-CASE-MFS-22145-1 US-PATENT-APPL-SN-367606 US-PATENT-CLASS-176-3 US-PATENT-CLASS-313-63 US-PATENT-CLASS-315-111 US-PATENT-CLASS-328-233 US-PATENT-3,854,097	N75-18310*	c 20	NASA-CASE-ARC-10637-1 US-PATENT-APPL-SN-352383 US-PATENT-CLASS-356-28 US-PATENT-3,860,342
N75-12930*	c 05	NASA-CASE-ARC-10456-1 US-PATENT-APPL-SN-237491 US-PATENT-CLASS-244-75R US-PATENT-CLASS-244-83R US-PATENT-CLASS-416-25 US-PATENT-CLASS-74-480R US-PATENT-3,850,388	N75-14834*	c 23	NASA-CASE-MS-13530-1 US-PATENT-APPL-SN-178771 US-PATENT-APPL-SN-69488 US-PATENT-CLASS-106-13 US-PATENT-CLASS-106-15R US-PATENT-CLASS-106-287SB US-PATENT-CLASS-117-124F US-PATENT-CLASS-117-135.5 US-PATENT-CLASS-252-549 US-PATENT-CLASS-252-70 US-PATENT-3,856,534	N75-18477*	c 33	NASA-CASE-LEW-11694-1 US-PATENT-APPL-SN-352381 US-PATENT-CLASS-29-25.18 US-PATENT-CLASS-72-63 US-PATENT-3,864,797
N75-12968*	c 09	NASA-CASE-MFS-22039-1 US-PATENT-APPL-SN-386790 US-PATENT-CLASS-108-136 US-PATENT-3,853,075	N75-14844*	c 25	NASA-CASE-MS-13530-1 US-PATENT-APPL-SN-178771 US-PATENT-APPL-SN-69488 US-PATENT-CLASS-106-13 US-PATENT-CLASS-106-15R US-PATENT-CLASS-106-287SB US-PATENT-CLASS-117-124F US-PATENT-CLASS-117-135.5 US-PATENT-CLASS-252-549 US-PATENT-CLASS-252-70 US-PATENT-3,856,534	N75-18479*	c 33	NASA-CASE-MFS-22129-1 US-PATENT-APPL-SN-370255 US-PATENT-CLASS-324-32 US-PATENT-CLASS-324-54 US-PATENT-3,866,114
N75-12969*	c 09	NASA-CASE-ARC-10710-1 US-PATENT-APPL-SN-379019 US-PATENT-CLASS-73-147 US-PATENT-3,853,003	N75-14957*	c 33	NASA-CASE-NPO-12130-1 US-PATENT-APPL-SN-750235 US-PATENT-CLASS-23-230B US-PATENT-CLASS-23-253R US-PATENT-3,856,471	N75-18573*	c 37	NASA-CASE-MS-14129-1 US-PATENT-APPL-SN-362146 US-PATENT-CLASS-307-229 US-PATENT-CLASS-307-235R US-PATENT-CLASS-307-267 US-PATENT-CLASS-328-115 US-PATENT-CLASS-328-58 US-PATENT-3,869,624
N75-13007*	c 15	NASA-CASE-GSC-11182-1 US-PATENT-APPL-SN-393527 US-PATENT-CLASS-325-4 US-PATENT-3,851,250	N75-15014*	c 35	NASA-CASE-MS-14240-1 US-PATENT-APPL-SN-351929 US-PATENT-CLASS-307-205 US-PATENT-CLASS-307-208 US-PATENT-3,857,045	N75-18574*	c 37	NASA-CASE-NPO-13253-1 US-PATENT-APPL-SN-395687 US-PATENT-CLASS-248-358R US-PATENT-3,863,881
N75-13032*	c 24	NASA-CASE-LAR-100994-1 US-PATENT-APPL-SN-390466 US-PATENT-CLASS-29-420 US-PATENT-CLASS-29-604 US-PATENT-CLASS-340-174MA US-PATENT-CLASS-75-200 US-PATENT-3,849,877	N75-15028*	c 36	NASA-CASE-LAR-11213-1 US-PATENT-APPL-SN-406715 US-PATENT-CLASS-250-201 US-PATENT-CLASS-356-4 US-PATENT-3,857,031	N75-19329*	c 18	NASA-CASE-GSC-11079-1 US-PATENT-APPL-SN-100637 US-PATENT-CLASS-308-10 US-PATENT-3,865,442
N75-13111*	c 31	NASA-CASE-LAR-10782-2 US-PATENT-APPL-SN-197689 US-PATENT-APPL-SN-379049 US-PATENT-CLASS-249-144 US-PATENT-CLASS-249-145 US-PATENT-CLASS-249-59 US-PATENT-CLASS-425-DIG.43 US-PATENT-CLASS-425-405R US-PATENT-CLASS-425-438 US-PATENT-CLASS-425-468 US-PATENT-3,850,567	N75-15029*	c 36	NASA-CASE-MFS-21244-1 US-PATENT-APPL-SN-350249 US-PATENT-CLASS-356-103 US-PATENT-CLASS-356-28 US-PATENT-CLASS-356-5 US-PATENT-3,856,402	N75-19408*	c 26	NASA-CASE-MFS-22734-1 US-PATENT-APPL-SN-453232 US-PATENT-CLASS-244-162 US-PATENT-3,866,863
N75-13139*	c 33	NASA-CASE-MFS-22073-1 US-PATENT-APPL-SN-409991 US-PATENT-CLASS-318-608 US-PATENT-CLASS-318-640 US-PATENT-CLASS-318-649 US-PATENT-CLASS-318-675 US-PATENT-3,851,238	N75-15050*	c 37	NASA-CASE-NPO-13050-1 US-PATENT-APPL-SN-317567 US-PATENT-CLASS-117-95 US-PATENT-CLASS-117-97 US-PATENT-CLASS-330-4 US-PATENT-CLASS-332-7.5 US-PATENT-3,859,119	N75-19515*	c 33	NASA-CASE-LEW-11696-2 US-PATENT-APPL-SN-298156 US-PATENT-APPL-SN-436315 US-PATENT-CLASS-29-194 US-PATENT-CLASS-29-196.2 US-PATENT-CLASS-29-196.6 US-PATENT-CLASS-29-197 US-PATENT-3,869,779
N75-13213*	c 35	NASA-CASE-MFS-22073-1 US-PATENT-APPL-SN-409991 US-PATENT-CLASS-318-608 US-PATENT-CLASS-318-640 US-PATENT-CLASS-318-649 US-PATENT-CLASS-318-675 US-PATENT-3,851,238	N75-15050*	c 37	NASA-CASE-NPO-13201-1 US-PATENT-APPL-SN-372149 US-PATENT-CLASS-137-505.38 US-PATENT-CLASS-137-505.42 US-PATENT-CLASS-74-424.8VA US-PATENT-3,856,042	N75-19516*	c 33	NASA-CASE-MSC-14131-1 US-PATENT-APPL-SN-373588 US-PATENT-CLASS-307-260 US-PATENT-CLASS-324-78J US-PATENT-CLASS-328-59 US-PATENT-CLASS-331-78 US-PATENT-3,866,128
N75-13261*	c 37	NASA-CASE-LEW-11632-2 US-PATENT-APPL-SN-254173 US-PATENT-APPL-SN-327969 US-PATENT-CLASS-29-571 US-PATENT-CLASS-29-592 US-PATENT-CLASS-307-309 US-PATENT-CLASS-317-235H US-PATENT-CLASS-330-6 US-PATENT-3,849,875	N75-15270*	c 52	NASA-CASE-NPO-12119-1 US-PATENT-APPL-SN-847815 US-PATENT-CLASS-424-180 US-PATENT-3,849,554	N75-19517*	c 33	NASA-CASE-GSC-11760-1 NASA-CASE-GSC-11783-1 US-PATENT-APPL-SN-395868 US-PATENT-CLASS-343-761 US-PATENT-CLASS-343-781 US-PATENT-CLASS-343-837 US-PATENT-3,866,233
N75-13265*	c 37	NASA-CASE-LEW-11696-1 US-PATENT-APPL-SN-298156 US-PATENT-CLASS-29-196.6 US-PATENT-CLASS-29-197 US-PATENT-CLASS-29-460 US-PATENT-CLASS-29-494 US-PATENT-CLASS-29-497.5 US-PATENT-CLASS-29-504 US-PATENT-3,849,865	N75-15662*	c 09	NASA-CASE-LAR-10276-1 US-PATENT-APPL-SN-29979 US-PATENT-CLASS-272-1R US-PATENT-CLASS-272-57A US-PATENT-CLASS-35-12C US-PATENT-3,859,736	N75-19518*	c 33	NASA-CASE-GSC-11582-1 US-PATENT-APPL-SN-397477 US-PATENT-CLASS-178-15 US-PATENT-CLASS-315-18 US-PATENT-CLASS-340-324AD US-PATENT-3,866,210
N75-13265*	c 37	NASA-CASE-KSC-10723-1 US-PATENT-APPL-SN-347952 US-PATENT-CLASS-338-162 US-PATENT-CLASS-338-75 US-PATENT-CLASS-338-97 US-PATENT-3,854,113	N75-15854*	c 32	NASA-CASE-NPO-13292-1 US-PATENT-APPL-SN-416135 US-PATENT-CLASS-343-100ST US-PATENT-CLASS-343-17.5 US-PATENT-CLASS-343-6.5R US-PATENT-CLASS-343-9 US-PATENT-3,860,921	N75-19519*	c 33	NASA-CASE-ARC-10348-1 US-PATENT-APPL-SN-140439 US-PATENT-CLASS-330-69 US-PATENT-CLASS-330-86 US-PATENT-3,872,395
N75-13266*	c 37	NASA-CASE-NPO-13281-1 US-PATENT-APPL-SN-412079 US-PATENT-CLASS-74-436 US-PATENT-CLASS-74-820 US-PATENT-3,855,873	N75-15874*	c 33	NASA-CASE-MFS-22088-1 US-PATENT-APPL-SN-426155 US-PATENT-CLASS-318-227 US-PATENT-CLASS-318-230 US-PATENT-CLASS-318-231 US-PATENT-3,860,858	N75-19520*	c 33	NASA-CASE-NPO-13125-1 US-PATENT-APPL-SN-319150 US-PATENT-CLASS-235-92DM US-PATENT-CLASS-235-92LG US-PATENT-CLASS-235-92R US-PATENT-CLASS-235-92T US-PATENT-CLASS-235-92VA US-PATENT-3,866,022
N75-13502*	c 51	NASA-CASE-LAR-11074-1 US-PATENT-APPL-SN-326364 US-PATENT-CLASS-115-103.5 US-PATENT-CLASS-195-120 US-PATENT-CLASS-195-127 US-PATENT-3,850,754	N75-15931*	c 35	NASA-CASE-MFS-21761-1 US-PATENT-APPL-SN-337816 US-PATENT-CLASS-200-83N US-PATENT-CLASS-73-40 US-PATENT-CLASS-73-49.2 US-PATENT-3,859,845	N75-19521*	c 33	NASA-CASE-ARC-10364-3 US-PATENT-APPL-SN-209618 US-PATENT-APPL-SN-462844 US-PATENT-CLASS-307-321 US-PATENT-CLASS-324-DIG.1 US-PATENT-CLASS-329-166 US-PATENT-CLASS-329-204 US-PATENT-CLASS-332-47 US-PATENT-3,869,676
N75-13531*	c 54	NASA-CASE-LEW-11581-1 US-PATENT-APPL-SN-327921 US-PATENT-CLASS-128-2.05A US-PATENT-CLASS-128-2.05P	N75-15932*	c 35	NASA-CASE-MFS-21045-1 US-PATENT-APPL-SN-411572 US-PATENT-CLASS-73-1R US-PATENT-CLASS-73-379 US-PATENT-3,859,840	N75-19521*	c 33	NASA-CASE-KSC-10736-1 US-PATENT-APPL-SN-348787 US-PATENT-CLASS-324-102 US-PATENT-CLASS-324-113

N75-19522*	c 33	US-PATENT-3,869,667	US-PATENT-CLASS-165-111	US-PATENT-CLASS-331-25
		NASA-CASE-GSC-11844-1	US-PATENT-CLASS-62-285	US-PATENT-3,883,817
		US-PATENT-APPL-SN-452761	US-PATENT-CLASS-62-288	NASA-CASE-ARC-10364-2
		US-PATENT-CLASS-307-227	US-PATENT-CLASS-62-289	US-PATENT-APPL-SN-209618
		US-PATENT-CLASS-321-15	US-PATENT-CLASS-62-290	US-PATENT-APPL-SN-433968
N75-19524*	c 33	US-PATENT-CLASS-324-32	US-PATENT-CLASS-62-317	US-PATENT-CLASS-307-321
		US-PATENT-3,869,659	US-PATENT-CLASS-62-93	US-PATENT-CLASS-324-DIG.1
		NASA-CASE-NPO-13374-1	US-PATENT-3,868,830	US-PATENT-CLASS-329-166
		US-PATENT-APPL-SN-449118	NASA-CASE-GSC-11752-1	US-PATENT-CLASS-329-204
		US-PATENT-CLASS-318-137	US-PATENT-APPL-SN-446569	US-PATENT-3,883,812
N75-19611*	c 35	US-PATENT-CLASS-318-167	US-PATENT-CLASS-219-497	NASA-CASE-NPO-10764-2
		US-PATENT-CLASS-318-176	US-PATENT-CLASS-219-501	US-PATENT-APPL-SN-273519
		US-PATENT-CLASS-318-183	US-PATENT-CLASS-219-505	US-PATENT-APPL-SN-836280
		US-PATENT-3,867,677	US-PATENT-3,869,597	US-PATENT-CLASS-116-114.5
		NASA-CASE-LAR-11071-1	NASA-CASE-MSC-12607-1	US-PATENT-CLASS-117-72
N75-19612*	c 35	US-PATENT-APPL-SN-334349	US-PATENT-APPL-SN-407323	US-PATENT-CLASS-73-356
		US-PATENT-CLASS-417-138	US-PATENT-CLASS-178-DIG.12	US-PATENT-3,874,240
		US-PATENT-CLASS-417-36	US-PATENT-CLASS-358-36	NASA-CASE-NPO-13214-1
		US-PATENT-CLASS-417-395	US-PATENT-3,875,584	NASA-CASE-NPO-13215-1
		US-PATENT-CLASS-73-221	NASA-CASE-MSC-14558-1	US-PATENT-APPL-SN-394149
N75-19613*	c 35	US-PATENT-3,864,060	US-PATENT-APPL-SN-428994	US-PATENT-CLASS-178-DIG.29
		NASA-CASE-LAR-11237-1	US-PATENT-CLASS-178-58A	US-PATENT-CLASS-178-7.2
		US-PATENT-APPL-SN-402868	US-PATENT-CLASS-178-79	US-PATENT-3,883,689
		US-PATENT-CLASS-340-242	US-PATENT-3,875,332	NASA-CASE-MFS-21704-1
		US-PATENT-CLASS-73-46	NASA-CASE-MFS-22671-1	US-PATENT-APPL-SN-386793
N75-19614*	c 35	US-PATENT-CLASS-73-49.2	US-PATENT-APPL-SN-419831	US-PATENT-CLASS-350-3.5
		US-PATENT-3,864,960	US-PATENT-CLASS-178-69A	US-PATENT-3,883,215
		NASA-CASE-LAR-11207-1	US-PATENT-CLASS-235-181	NASA-CASE-NPO-13360-1
		US-PATENT-APPL-SN-385013	US-PATENT-CLASS-324-57PS	US-PATENT-APPL-SN-401920
		US-PATENT-CLASS-178-DIG.20	US-PATENT-CLASS-324-77H	US-PATENT-CLASS-228-1
N75-19615*	c 35	US-PATENT-CLASS-250-332	US-PATENT-CLASS-325-67	US-PATENT-CLASS-251-333
		US-PATENT-CLASS-356-186	US-PATENT-3,875,500	US-PATENT-3,874,635
		US-PATENT-CLASS-356-189	NASA-CASE-LEW-11274-1	NASA-CASE-MFS-22649-1
		US-PATENT-CLASS-356-83	US-PATENT-APPL-SN-380630	US-PATENT-APPL-SN-398901
		US-PATENT-CLASS-356-96	US-PATENT-CLASS-277-134	US-PATENT-CLASS-408-112
N. 5-19616*	c 35	US-PATENT-3,869,212	US-PATENT-CLASS-277-27	US-PATENT-CLASS-408-186
		NASA-CASE-LAR-11173-1	US-PATENT-CLASS-277-40	US-PATENT-CLASS-408-193
		US-PATENT-APPL-SN-354408	US-PATENT-3,874,677	US-PATENT-CLASS-408-195
		US-PATENT-CLASS-332-2	NASA-CASE-NPO-13327-1	US-PATENT-3,877,833
		US-PATENT-CLASS-73-557	US-PATENT-APPL-SN-429437	NASA-CASE-ARC-10722-1
N75-19652*	c 36	US-PATENT-3,868,856	US-PATENT-CLASS-247-171	US-PATENT-APPL-SN-428995
		NASA-CASE-MFS-22189-1	US-PATENT-CLASS-250-203	US-PATENT-CLASS-47-1.2
		US-PATENT-APPL-SN-405342	US-PATENT-CLASS-250-211R	US-PATENT-CLASS-47-39
		US-PATENT-CLASS-33-148D	US-PATENT-3,875,404	US-PATENT-CLASS-47-58
		US-PATENT-CLASS-73-143	NASA-CASE-MSC-14339-1	US-PATENT-3,882,634
N75-19653*	c 36	US-PATENT-3,864,953	US-PATENT-APPL-SN-347953	NASA-CASE-HQN-10542-1
		NASA-CASE-MFS-20932-1	US-PATENT-CLASS-128-2.06E	US-PATENT-APPL-SN-163151
		US-PATENT-APPL-SN-374441	US-PATENT-CLASS-128-DIG.4	US-PATENT-CLASS-178-DIG.25
		US-PATENT-CLASS-250-505	US-PATENT-CLASS-128-2.06B	US-PATENT-CLASS-250-566
		US-PATENT-CLASS-250-508	US-PATENT-3,882,846	US-PATENT-CLASS-350-311
N75-19654*	c 36	US-PATENT-CLASS-250-510	NASA-CASE-ARC-10754-1	US-PATENT-3,883,436
		US-PATENT-3,869,615	US-PATENT-APPL-SN-398886	NASA-CASE-GSC-11425-2
		NASA-CASE-NPO-13131-1	US-PATENT-CLASS-137-15.1	US-PATENT-APPL-SN-206266
		US-PATENT-APPL-SN-390468	US-PATENT-CLASS-244-53B	US-PATENT-APPL-SN-394206
		US-PATENT-CLASS-178-7.1	US-PATENT-3,883,095	US-PATENT-CLASS-357-23
N75-19655*	c 36	US-PATENT-CLASS-250-211R	NASA-CASE-GSC-11127-1	US-PATENT-CLASS-357-29
		US-PATENT-CLASS-250-578	US-PATENT-APPL-SN-401466	US-PATENT-CLASS-357-42
		US-PATENT-CLASS-315-169R	US-PATENT-CLASS-318-314	US-PATENT-CLASS-357-52
		US-PATENT-CLASS-340-173LS	US-PATENT-CLASS-318-318	US-PATENT-CLASS-357-54
		US-PATENT-3,865,975	US-PATENT-CLASS-318-341	US-PATENT-CLASS-357-91
N75-19656*	c 36	NASA-CASE-HQN-10844-1	US-PATENT-3,883,785	US-PATENT-3,882,530
		US-PATENT-APPL-SN-412080	NASA-CASE-NPO-13263-1	NASA-CASE-LAR-11252-1
		US-PATENT-CLASS-356-106LR	US-PATENT-APPL-SN-393523	US-PATENT-APPL-SN-367268
		US-PATENT-3,869,210	US-PATENT-CLASS-73-505	US-PATENT-CLASS-D12-76
		NASA-CASE-GSC-11746-1	US-PATENT-3,882,732	US-PATENT-CLASS-244-13
N75-19657*	c 36	US-PATENT-APPL-SN-393528	NASA-CASE-MFS-21488-1	US-PATENT-CLASS-244-15
		US-PATENT-CLASS-331-94.5M	US-PATENT-APPL-SN-359156	US-PATENT-CLASS-244-42DA
		US-PATENT-3,869,680	US-PATENT-CLASS-73-143	US-PATENT-CLASS-244-55
		NASA-CASE-LAR-11341-1	US-PATENT-3,882,719	US-PATENT-3,884,432
		US-PATENT-APPL-SN-367293	NASA-CASE-NPO-13303-1	NASA-CASE-ARC-10519-2
N75-19658*	c 37	US-PATENT-CLASS-330-4.3	US-PATENT-APPL-SN-457295	US-PATENT-APPL-SN-452767
		US-PATENT-CLASS-331-94.5P	US-PATENT-CLASS-310-10	US-PATENT-CLASS-280-1505B
		US-PATENT-3,868,591	US-PATENT-CLASS-310-40	US-PATENT-CLASS-297-385
		NASA-CASE-MSC-19095-1	US-PATENT-CLASS-310-52	US-PATENT-CLASS-297-388
		US-PATENT-APPL-SN-415486	US-PATENT-CLASS-335-216	US-PATENT-CLASS-297-389
N75-19659*	c 37	US-PATENT-CLASS-219-137	US-PATENT-CLASS-60-516	US-PATENT-3,887,233
		US-PATENT-3,864,542	US-PATENT-CLASS-60-530	NASA-CASE-LAR-11144-1
		NASA-CASE-NPO-13345-1	US-PATENT-CLASS-62-3	US-PATENT-APPL-SN-428405
		US-PATENT-APPL-SN-462705	US-PATENT-CLASS-62-467	US-PATENT-CLASS-117-106A
		US-PATENT-CLASS-204-192	US-PATENT-3,875,435	US-PATENT-CLASS-117-107.2
N75-19660*	c 37	US-PATENT-CLASS-204-298	NASA-CASE-GSC-11743-1	US-PATENT-CLASS-117-201
		US-PATENT-3,864,239	US-PATENT-APPL-SN-370271	US-PATENT-CLASS-118-48
		NASA-CASE-MFS-21606-1	US-PATENT-CLASS-178-66R	US-PATENT-CLASS-118-49.1
		US-PATENT-APPL-SN-356555	US-PATENT-CLASS-325-30	US-PATENT-CLASS-148-175
		US-PATENT-CLASS-292-DIG.14	US-PATENT-CLASS-325-60	US-PATENT-CLASS-252-62.3GA
N75-19661*	c 37	US-PATENT-CLASS-292-108	US-PATENT-3,878,464	US-PATENT-3,888,705
		US-PATENT-CLASS-292-122	NASA-CASE-NPO-13140-1	NASA-CASE-NPO-13217-1
		US-PATENT-3,869,160	US-PATENT-APPL-SN-374422	US-PATENT-APPL-SN-362145
		NASA-CASE-MFS-19193-1	US-PATENT-CLASS-343-100PE	US-PATENT-CLASS-343-105R
		US-PATENT-APPL-SN-461477	US-PATENT-CLASS-343-5GC	US-PATENT-CLASS-343-112D
N75-19662*	c 37	US-PATENT-CLASS-285-114	US-PATENT-3,883,872	US-PATENT-3,889,264
		US-PATENT-CLASS-285-226	NASA-CASE-GSC-11623-1	NASA-CASE-NPO-13321-1
		US-PATENT-3,869,151	US-PATENT-APPL-SN-389929	US-PATENT-APPL-SN-455163
		NASA-CASE-MSC-14143-1	US-PATENT-CLASS-331-1A	US-PATENT-CLASS-178-69.5R
		US-PATENT-APPL-SN-393526	US-PATENT-CLASS-331-1B	US-PATENT-CLASS-179-158B
N75-20139*	c 77	US-PATENT-CLASS-165-110		US-PATENT-CLASS-325-4

N75-26243*	c 33	US-PATENT-3,889,064 NASA-CASE-GSC-11744-1 US-PATENT-APPL-SN-353162 US-PATENT-CLASS-179-158C US-PATENT-CLASS-235-150.53 US-PATENT-CLASS-235-181 US-PATENT-CLASS-324-83Q US-PATENT-CLASS-328-133 US-PATENT-3,875,394	N75-27251*	c 33	US-PATENT-3,189,784 NASA-CASE-HQN-10069 US-PATENT-APPL-SN-739072 US-PATENT-CLASS-330-5 US-PATENT-3,551,831	US-PATENT-CLASS-311-37 US-PATENT-CLASS-331-65 US-PATENT-CLASS-73-23 US-PATENT-3,895,912		
N75-26244*	c 33	NASA-CASE-MFS-22208-1 US-PATENT-APPL-SN-448325 US-PATENT-CLASS-315-10 US-PATENT-CLASS-315-367 US-PATENT-CLASS-315-369 US-PATENT-CLASS-315-387 US-PATENT-3,889,155	N75-27252*	c 33	NASA-CASE-LAR-11042-1 US-PATENT-APPL-SN-440916 US-PATENT-CLASS-204-242 US-PATENT-CLASS-204-267 US-PATENT-CLASS-204-279 US-PATENT-CLASS-204-286 US-PATENT-CLASS-204-290R US-PATENT-3,891,533	N75-29381*	c 35	NASA-CASE-ARC-10806-1 US-PATENT-APPL-SN-478802 US-PATENT-CLASS-73-178R US-PATENT-3,895,521
N75-26245*	c 33	NASA-CASE-LAR-11352-1 US-PATENT-APPL-SN-459736 US-PATENT-CLASS-23-254E US-PATENT-CLASS-324-58.5A US-PATENT-CLASS-324-58.5C US-PATENT-3,889,182	N75-27328*	c 35	NASA-CASE-MFS-22537-1 US-PATENT-APPL-SN-387266 US-PATENT-CLASS-350-3.5 US-PATENT-3,888,561	N75-29382*	c 35	NASA-CASE-XMS-05731 US-PATENT-APPL-SN-441279 US-PATENT-CLASS-73-117.4 US-PATENT-3,375,712
N75-26246*	c 33	NASA-CASE-KSC-10807-1 US-PATENT-APPL-SN-461073 US-PATENT-CLASS-324-72 US-PATENT-3,889,185	N75-27329*	c 35	NASA-CASE-XMF-05882 US-PATENT-APPL-SN-533650 US-PATENT-CLASS-250-83.3 US-PATENT-3,454,766	N75-29426*	c 37	NASA-CASE-XLE-10717 US-PATENT-APPL-SN-844243 US-PATENT-CLASS-315-111 US-PATENT-3,004,189
N75-26282*	c 34	NASA-CASE-LAR-11110-1 US-PATENT-APPL-SN-420424 US-PATENT-CLASS-233-DIG.1 US-PATENT-CLASS-233-20RP US-PATENT-CLASS-233-25 US-PATENT-CLASS-233-46 US-PATENT-CLASS-233-6 US-PATENT-3,888,410	N75-27330*	c 35	NASA-CASE-LAR-11354-1 US-PATENT-APPL-SN-409990 US-PATENT-CLASS-195-103.5R US-PATENT-CLASS-195-120 US-PATENT-CLASS-195-127 US-PATENT-CLASS-195-141 US-PATENT-3,884,765	N75-30132*	c 03	NASA-CASE-ERC-10419-1 US-PATENT-APPL-SN-219722 US-PATENT-CLASS-343-112CA US-PATENT-CLASS-343-6.5R US-PATENT-3,900,847
N75-26334*	c 35	NASA-CASE-ARC-10344-2 US-PATENT-APPL-SN-446564 US-PATENT-CLASS-55-386 US-PATENT-3,887,345	N75-27331*	c 35	NASA-CASE-GSC-11829-1 US-PATENT-APPL-SN-502136 US-PATENT-CLASS-250-385 US-PATENT-3,891,851	N75-30256*	c 23	NASA-CASE-MFS-22356-1 US-PATENT-APPL-SN-489008 US-PATENT-CLASS-260-346.3 US-PATENT-CLASS-260-520 US-PATENT-CLASS-260-787F US-PATENT-3,899,517
N75-26371*	c 37	NASA-CASE-GSC-10984-1 US-PATENT-APPL-SN-127480 US-PATENT-CLASS-117-126GM US-PATENT-CLASS-117-126R US-PATENT-CLASS-161-92 US-PATENT-CLASS-161-93 US-PATENT-CLASS-29-182.2 US-PATENT-CLASS-29-182.5 US-PATENT-CLASS-29-420.5 US-PATENT-CLASS-65-3 US-PATENT-CLASS-75-DIG.1 US-PATENT-CLASS-75-200 US-PATENT-CLASS-75-208R US-PATENT-CLASS-75-212 US-PATENT-CLASS-75-214 US-PATENT-CLASS-75-222 US-PATENT-3,887,365	N75-27364*	c 36	NASA-CASE-XLE-2529-2 US-PATENT-APPL-SN-848403 US-PATENT-CLASS-240-41B US-PATENT-CLASS-330-4.3 US-PATENT-CLASS-331-94.5A US-PATENT-3,894,289	N75-30260*	c 24	NASA-CASE-LAR-10337-1 US-PATENT-APPL-SN-424038 US-PATENT-CLASS-29-610 US-PATENT-CLASS-29-613 US-PATENT-CLASS-338-13 US-PATENT-CLASS-338-283 US-PATENT-3,898,730
N75-26372*	c 37	NASA-CASE-MFS-21931-1 US-PATENT-APPL-SN-464721 US-PATENT-CLASS-250-359 US-PATENT-CLASS-250-460 US-PATENT-CLASS-250-492 US-PATENT-3,889,122	N75-27376*	c 37	NASA-CASE-XMS-01330 US-PATENT-APPL-SN-153624 US-PATENT-APPL-SN-322565 US-PATENT-CLASS-219-125 US-PATENT-3,275,794	N75-30428*	c 33	NASA-CASE-MFS-22342-1 US-PATENT-APPL-SN-361666 US-PATENT-CLASS-330-13 US-PATENT-CLASS-330-18 US-PATENT-CLASS-330-40 US-PATENT-CLASS-330-63 US-PATENT-3,898,578
N75-26789* #	c 70	NASA-CASE-MFS-22758-1 US-PATENT-APPL-SN-581514	N75-27585*	c 45	NASA-CASE-NPO-13231-1 US-PATENT-APPL-SN-428993 US-PATENT-CLASS-250-343 US-PATENT-CLASS-250-345 US-PATENT-CLASS-250-432 US-PATENT-3,891,848	N75-30429*	c 33	NASA-CASE-MFS-21616-1 US-PATENT-APPL-SN-464723 US-PATENT-CLASS-330-207A US-PATENT-CLASS-330-24 US-PATENT-3,899,745
N75-27040*	c 18	NASA-CASE-XHQ-02146 US-PATENT-APPL-SN-290043 US-PATENT-CLASS-52-71 US-PATENT-3,206,897	N75-27758*	c 54	NASA-CASE-NPO-13386-1 US-PATENT-APPL-SN-475336 US-PATENT-CLASS-214-1B US-PATENT-CLASS-214-1CM US-PATENT-CLASS-318-840 US-PATENT-3,888,362	N75-30430*	c 33	NASA-CASE-NPO-13504-1 US-PATENT-APPL-SN-483852 US-PATENT-CLASS-33-96 US-PATENT-CLASS-333-21R US-PATENT-CLASS-333-83BT US-PATENT-CLASS-333-98R US-PATENT-3,902,143
N75-27041*	c 18	NASA-CASE-MSC-14245-1 US-PATENT-APPL-SN-389916 US-PATENT-CLASS-214-1CM US-PATENT-3,893,573	N75-27759*	c 54	NASA-CASE-MSC-13601-2 US-PATENT-APPL-SN-395495 US-PATENT-CLASS-351-38 US-PATENT-3,891,311	N75-30431*	c 33	NASA-CASE-KSC-10782-1 US-PATENT-APPL-SN-400467 US-PATENT-CLASS-178-DIG.1 US-PATENT-CLASS-178-6.8 US-PATENT-3,900,705
N75-27125*	c 26	NASA-CASE-XMF-05868 US-PATENT-APPL-SN-512509 US-PATENT-CLASS-260-29.6 US-PATENT-3,475,442	N75-27760*	c 54	NASA-CASE-ARC-10753-1 US-PATENT-APPL-SN-427395 US-PATENT-CLASS-128-2.05Z US-PATENT-CLASS-128-2V US-PATENT-CLASS-128-24A US-PATENT-CLASS-74-471XY US-PATENT-3,893,449	N75-30502*	c 35	NASA-CASE-ARC-10802-1 US-PATENT-APPL-SN-484208 US-PATENT-CLASS-205-343 US-PATENT-CLASS-250-351 US-PATENT-CLASS-250-373 US-PATENT-CLASS-356-51 US-PATENT-3,899,252
N75-27126*	c 26	NASA-CASE-XMF-06053 US-PATENT-APPL-SN-542192 US-PATENT-CLASS-75-173 US-PATENT-3,411,900	N75-27761*	c 54	NASA-CASE-NPO-13313-1 US-PATENT-APPL-SN-449153 US-PATENT-CLASS-128-145.8 US-PATENT-CLASS-55-DIG.35 US-PATENT-3,893,458	N75-30503*	c 35	NASA-CASE-LEW-12078-1 US-PATENT-APPL-SN-447124 US-PATENT-CLASS-73-194M US-PATENT-CLASS-73-195 US-PATENT-3,898,882
N75-27127*	c 26	NASA-CASE-XNP-03878 US-PATENT-APPL-SN-488745 US-PATENT-CLASS-75-173 US-PATENT-3,373,016	N75-28135*	c 24	NASA-CASE-MFS-21077-1 US-PATENT-APPL-SN-127481 US-PATENT-CLASS-228-190 US-PATENT-CLASS-228-193 US-PATENT-CLASS-29-419 US-PATENT-3,894,677	N75-30504*	c 35	NASA-CASE-MSC-12531-1 US-PATENT-APPL-SN-354612 US-PATENT-CLASS-307-204 US-PATENT-CLASS-307-211 US-PATENT-CLASS-307-219 US-PATENT-CLASS-328-61 US-PATENT-CLASS-328-62 US-PATENT-3,900,741
N75-27160*	c 27	NASA-CASE-MFS-22324-1 US-PATENT-APPL-SN-350250 US-PATENT-CLASS-106-48 US-PATENT-CLASS-106-54 US-PATENT-CLASS-117-129 US-PATENT-3,891,452	N75-29192*	c 25	NASA-CASE-HQN-10462 US-PATENT-APPL-SN-773530 US-PATENT-CLASS-118-43 US-PATENT-3,603,285	N75-30524*	c 36	NASA-CASE-NPO-13308-1 US-PATENT-APPL-SN-455165 US-PATENT-CLASS-310-4 US-PATENT-CLASS-331-DIG.1 US-PATENT-3,899,696
N75-27249*	c 33	NASA-CASE-XMS-02744 US-PATENT-APPL-SN-351950 US-PATENT-CLASS-200-129 US-PATENT-3,281,558	N75-29236*	c 26	NASA-CASE-XNP-01311 US-PATENT-APPL-SN-430496 US-PATENT-CLASS-148-127 US-PATENT-3,390,023	N75-30562*	c 37	NASA-CASE-LEW-11076-3 US-PATENT-APPL-SN-405346 US-PATENT-CLASS-308-121 US-PATENT-CLASS-308-73 US-PATENT-3,899,224
N75-27250*	c 33	NASA-CASE-XNP-01296 US-PATENT-APPL-SN-127984 US-PATENT-CLASS-315-30	N75-29318*	c 33	NASA-CASE-ARC-10266-1 US-PATENT-APPL-SN-453241 US-PATENT-APPL-SN-585988 US-PATENT-CLASS-315-111 US-PATENT-3,469,143	N75-30876*	c 73	NASA-CASE-LEW-11227-1 US-PATENT-APPL-SN-146939 US-PATENT-CLASS-244-15S US-PATENT-CLASS-250-493 US-PATENT-CLASS-250-496 US-PATENT-3,899,680
			N75-29380*	c 35	NASA-CASE-MFS-22060-1 US-PATENT-APPL-SN-521603 US-PATENT-CLASS-23-254E US-PATENT-CLASS-23-255E	N75-31329*	c 33	NASA-CASE-NPO-13423-1 US-PATENT-APPL-SN-470429

		US-PATENT-CLASS-128-25		US-PATENT-CLASS-279-1B	N76-14429*	c 35	NASA-CASE-LAR-11552-1	
		US-PATENT-CLASS-338-2		US-PATENT-CLASS-279-107			US-PATENT-APPL-SN-518685	
		US-PATENT-CLASS-73-88.5		US-PATENT-CLASS-279-89			US-PATENT-CLASS-73-182	
		US-PATENT-3,905,356		US-PATENT-CLASS-29-26A			US-PATENT-CLASS-73-212	
N75-31330*	c 33	NASA-CASE-NPO-13426-1		US-PATENT-CLASS-294-116			US-PATENT-3,914,997	
		US-PATENT-APPL-SN-45053		US-PATENT-CLASS-294-86.33	N76-14430*	c 35	NASA-CASE-NPO-13170-1	
		US-PATENT-CLASS-307-225R		US-PATENT-3,907,312			US-PATENT-APPL-SN-382261	
		US-PATENT-CLASS-328-41	N75-33640*	c 52	NASA-CASE-LEW-12051-1		US-PATENT-CLASS-338-6	
		US-PATENT-3,906,374		US-PATENT-APPL-SN-397478			US-PATENT-CLASS-73-88.5R	
N75-31331*	c 33	NASA-CASE-NPO-11156-2		US-PATENT-CLASS-128-230			US-PATENT-3,914,991	
		US-PATENT-APPL-SN-174684		US-PATENT-CLASS-128-305	N76-14431*	c 35	NASA-CASE-LEW-11915-1	
		US-PATENT-CLASS-307-238		US-PATENT-3,906,954			US-PATENT-APPL-SN-474744	
		US-PATENT-CLASS-340-173CA	N76-14158*	c 15	NASA-CASE-LAR-11051-1		US-PATENT-CLASS-137-15.2	
		US-PATENT-CLASS-357-24		US-PATENT-APPL-SN-384773			US-PATENT-CLASS-235-151.34	
		US-PATENT-CLASS-357-7		US-PATENT-CLASS-244-165			US-PATENT-CLASS-60-39.29	
N75-31332*	c 33	US-PATENT-3,906,296		US-PATENT-CLASS-244-3.21			US-PATENT-3,911,260	
		NASA-CASE-NPO-13348-1		US-PATENT-CLASS-74-5.7	N76-14447*	c 36	NASA-CASE-ARC-10642-1	
		US-PATENT-APPL-SN-452770		US-PATENT-3,915,416			US-PATENT-APPL-SN-446562	
		US-PATENT-CLASS-250-238	N76-14186*	c 18	NASA-CASE-MS-12559-1		US-PATENT-CLASS-356-106R	
		US-PATENT-CLASS-250-370		US-PATENT-APPL-SN-370582			US-PATENT-CLASS-356-28	
		US-PATENT-CLASS-357-5		US-PATENT-CLASS-178-DIG.20			US-PATENT-3,915,572	
		US-PATENT-3,906,231		US-PATENT-CLASS-244-161	N76-14460*	c 37	NASA-CASE-MFS-19194-1	
N75-31426*	c 36	NASA-CASE-ARC-10370-1		US-PATENT-CLASS-33-286			US-PATENT-APPL-SN-483850	
		US-PATENT-APPL-SN-137391		US-PATENT-CLASS-35-12			US-PATENT-CLASS-285-226	
		US-PATENT-CLASS-331-94.5G		US-PATENT-CLASS-356-153			US-PATENT-CLASS-285-265	
		US-PATENT-CLASS-331-94.5P		US-PATENT-3,910,533			US-PATENT-3,915,482	
		US-PATENT-3,906,397	N76-14190*	c 20	NASA-CASE-LEW-11593-1	N76-14461*	c 37	NASA-CASE-LEW-11694-2
N75-31427*	c 36	NASA-CASE-NPO-13175-1		US-PATENT-APPL-SN-363691			US-PATENT-APPL-SN-352381	
		US-PATENT-APPL-SN-374423		US-PATENT-CLASS-60-39.23			US-PATENT-APPL-SN-462903	
		US-PATENT-CLASS-331-94.5C		US-PATENT-CLASS-60-39.29			US-PATENT-CLASS-29-421	
		US-PATENT-CLASS-350-161		US-PATENT-CLASS-60-39.74R			US-PATENT-CLASS-72-363	
		US-PATENT-CLASS-350-96WG		US-PATENT-3,910,035			US-PATENT-CLASS-72-54	
		US-PATENT-3,906,393	N76-14191*	c 20	NASA-CASE-LEW-11118-2		US-PATENT-CLASS-72-63	
N75-31446*	c 37	NASA-CASE-LEW-11925-1		US-PATENT-APPL-SN-436316			US-PATENT-3,914,969	
		US-PATENT-APPL-SN-450505		US-PATENT-CLASS-239-127.3	N76-14463*	c 37	NASA-CASE-MFS-22323-1	
		US-PATENT-CLASS-308-191		US-PATENT-CLASS-60-265			US-PATENT-APPL-SN-474745	
		US-PATENT-CLASS-308-195		US-PATENT-CLASS-60-267			US-PATENT-CLASS-137-515.3	
		US-PATENT-CLASS-308-201		US-PATENT-3,910,039			US-PATENT-CLASS-137-550	
		US-PATENT-3,905,660	N76-14203*	c 24	NASA-CASE-NPO-12122-1		US-PATENT-CLASS-210-429	
N75-32441*	c 36	NASA-CASE-NPO-13449-1		US-PATENT-APPL-SN-401921			US-PATENT-CLASS-251-149.6	
		US-PATENT-APPL-SN-420813		US-PATENT-CLASS-149-36			US-PATENT-3,910,307	
		US-PATENT-CLASS-310-11		US-PATENT-CLASS-423-407	N76-14595*	c 44	NASA-CASE-MFS-22562-1	
		US-PATENT-CLASS-330-4.3		US-PATENT-3,919,014			US-PATENT-APPL-SN-458484	
		US-PATENT-CLASS-331-94.5PE	N76-14204*	c 24	NASA-CASE-MS-12568-1		US-PATENT-CLASS-126-270	
		US-PATENT-CLASS-331-94.5G		US-PATENT-APPL-SN-325784			US-PATENT-CLASS-136-206	
		US-PATENT-3,906,398		US-PATENT-CLASS-136-146			US-PATENT-CLASS-204-32R	
N75-32465* #	c 37	NASA-CASE-ARC-10907-1		US-PATENT-CLASS-136-148			US-PATENT-CLASS-204-33	
		US-PATENT-APPL-SN-619986		US-PATENT-CLASS-162-102			US-PATENT-CLASS-204-38A	
N75-32581*	c 44	NASA-CASE-MFS-21628-1		US-PATENT-CLASS-162-153			US-PATENT-CLASS-204-40	
		US-PATENT-APPL-SN-421702		US-PATENT-CLASS-162-222			US-PATENT-CLASS-204-42	
		US-PATENT-CLASS-126-271		US-PATENT-CLASS-162-228			US-PATENT-CLASS-204-49	
		US-PATENT-CLASS-165-105		US-PATENT-3,910,814			US-PATENT-CLASS-29-194	
		US-PATENT-CLASS-244-173	N76-14264*	c 27	NASA-CASE-MS-14182-1		US-PATENT-CLASS-29-195	
		US-PATENT-CLASS-60-641		US-PATENT-APPL-SN-419748			US-PATENT-CLASS-29-197	
		US-PATENT-CLASS-60-659		US-PATENT-CLASS-403-179			US-PATENT-3,920,413	
		US-PATENT-3,903,699		US-PATENT-CLASS-403-28	N76-14600*	c 44	NASA-CASE-LEW-11065-2	
N75-33181*	c 24	NASA-CASE-LEW-11484-1		US-PATENT-CLASS-428-109			US-PATENT-APPL-SN-154930	
		US-PATENT-APPL-SN-356554		US-PATENT-CLASS-428-212			US-PATENT-APPL-SN-371322	
		US-PATENT-CLASS-117-105.2		US-PATENT-CLASS-428-214			US-PATENT-CLASS-136-89	
		US-PATENT-CLASS-117-38		US-PATENT-CLASS-428-416			US-PATENT-CLASS-29-572	
		US-PATENT-CLASS-117-46FS		US-PATENT-CLASS-428-447			US-PATENT-3,912,540	
		US-PATENT-CLASS-117-8.5		US-PATENT-CLASS-428-77	N76-14601*	c 44	NASA-CASE-MFS-22749-1	
		US-PATENT-CLASS-29-DIG.24		US-PATENT-3,920,339			US-PATENT-APPL-SN-483857	
		US-PATENT-CLASS-29-DIG.39	N76-14284*	c 31	NASA-CASE-NPO-13435-1		US-PATENT-CLASS-136-114	
		US-PATENT-CLASS-29-527.2		US-PATENT-APPL-SN-478803			US-PATENT-CLASS-136-162	
		US-PATENT-CLASS-72-46		US-PATENT-CLASS-62-129			US-PATENT-CLASS-136-182	
		US-PATENT-3,906,769		US-PATENT-CLASS-62-49			US-PATENT-CLASS-136-90	
N75-33342*	c 34	NASA-CASE-MS-14273-1		US-PATENT-CLASS-73-295			US-PATENT-3,912,541	
		US-PATENT-APPL-SN-385522		US-PATENT-3,914,950	N76-14602*	c 44	NASA-CASE-NPO-13497-1	
		US-PATENT-CLASS-210-234	N76-14321*	c 32	NASA-CASE-LAR-11021-1		US-PATENT-APPL-SN-526448	
		US-PATENT-CLASS-210-259		US-PATENT-APPL-SN-453115			US-PATENT-CLASS-126-271	
		US-PATENT-CLASS-210-304		US-PATENT-CLASS-325-304			US-PATENT-CLASS-237-1A	
		US-PATENT-CLASS-210-333		US-PATENT-CLASS-325-306			US-PATENT-CLASS-350-211	
		US-PATENT-CLASS-210-340		US-PATENT-CLASS-325-372			US-PATENT-3,915,148	
		US-PATENT-CLASS-210-411		US-PATENT-CLASS-328-145	N76-14757*	c 52	NASA-CASE-MS-14180-1	
		US-PATENT-CLASS-210-425		US-PATENT-CLASS-343-176			US-PATENT-APPL-SN-354406	
		US-PATENT-CLASS-210-512		US-PATENT-3,916,316			US-PATENT-CLASS-128-2.06R	
		US-PATENT-CLASS-210-82	N76-14371*	c 33	NASA-CASE-KSC-10834-1		US-PATENT-CLASS-128-2.1A	
		US-PATENT-3,907,686		US-PATENT-APPL-SN-536535			US-PATENT-CLASS-128-2H	
N75-33367*	c 35	NASA-CASE-LAR-10629-1		US-PATENT-CLASS-178-69.5R			US-PATENT-3,910,257	
		US-PATENT-APPL-SN-402867		US-PATENT-CLASS-178-88	N76-14804*	c 54	NASA-CASE-MS-14640-1	
		US-PATENT-CLASS-116-114AH		US-PATENT-CLASS-328-190			US-PATENT-APPL-SN-526449	
		US-PATENT-CLASS-73-12		US-PATENT-CLASS-328-63			US-PATENT-CLASS-128-2F	
		US-PATENT-CLASS-73-170R		US-PATENT-3,916,084			US-PATENT-CLASS-73-421R	
		US-PATENT-CLASS-73-432PS	N76-14372*	c 33	NASA-CASE-LAR-10970-1		US-PATENT-3,915,012	
		US-PATENT-3,896,758		US-PATENT-APPL-SN-527790	N76-14818*	c 60	NASA-CASE-NPO-13422-1	
N75-33368*	c 35	NASA-CASE-LAR-11326-1		US-PATENT-CLASS-343-770			US-PATENT-APPL-SN-521601	
		US-PATENT-APPL-SN-491416		US-PATENT-CLASS-343-797			US-PATENT-CLASS-340-147C	
		US-PATENT-CLASS-195-103.5R		US-PATENT-CLASS-343-846			US-PATENT-CLASS-340-147R	
		US-PATENT-3,907,646		US-PATENT-3,919,710			US-PATENT-3,916,380	
N75-33369*	c 35	NASA-CASE-LAR-11263-1	N76-14373*	c 33	NASA-CASE-NPO-13451-1	N76-14931*	c 75	NASA-CASE-MFS-22287-1
		US-PATENT-APPL-SN-472775		US-PATENT-APPL-SN-501012			US-PATENT-APPL-SN-438147	
		US-PATENT-CLASS-73-141A		US-PATENT-CLASS-235-92SH			US-PATENT-CLASS-315-111.6	
		US-PATENT-3,906,788		US-PATENT-CLASS-307-221R			US-PATENT-CLASS-73-12	
N75-33395*	c 37	NASA-CASE-MFS-22283-1		US-PATENT-CLASS-328-37			US-PATENT-CLASS-89-8	
		US-PATENT-APPL-SN-387095		US-PATENT-3,911,330			US-PATENT-3,916,761	

ACCESSION NUMBER INDEX

N76-18427

N76-15189*	c 12	NASA-CASE-MSC-12611-1 US-PATENT-APPL-SN-446560 US-PATENT-CLASS-350-288 US-PATENT-CLASS-350-293 US-PATENT-CLASS-427-162 US-PATENT-CLASS-427-250 US-PATENT-3,927,227	US-PATENT-APPL-SN-500980 US-PATENT-CLASS-250-499 US-PATENT-CLASS-250-500 US-PATENT-3,924,137	US-PATENT-CLASS-244-172 US-PATENT-3,929,306
N76-15268*	c 23	NASA-CASE-MFS-22355-1 US-PATENT-APPL-SN-487852 US-PATENT-CLASS-260-32.6N US-PATENT-CLASS-260-32.8N US-PATENT-CLASS-260-346.3 US-PATENT-CLASS-260-47CP US-PATENT-CLASS-260-571 US-PATENT-CLASS-260-78TF US-PATENT-3,925,312	N76-16014* c 02 NASA-CASE-LAR-11575-1 US-PATENT-APPL-SN-527277 US-PATENT-CLASS-244-139 US-PATENT-3,930,628	N76-17317* c 34 NASA-CASE-LAR-10799-2 US-PATENT-APPL-SN-301419 US-PATENT-APPL-SN-419319 US-PATENT-CLASS-165-105 US-PATENT-CLASS-165-106 US-PATENT-CLASS-237-60 US-PATENT-CLASS-244-117A US-PATENT-CLASS-244-135R US-PATENT-CLASS-417-209 US-PATENT-3,929,305
N76-15310*	c 27	NASA-CASE-ARC-10714-1 US-PATENT-APPL-SN-398885 US-PATENT-CLASS-260-2.5AK US-PATENT-CLASS-427-196 US-PATENT-CLASS-427-426 US-PATENT-CLASS-428-303 US-PATENT-3,916,060	N76-16228* c 27 NASA-CASE-NPO-12061-1 US-PATENT-APPL-SN-45549 US-PATENT-CLASS-260-879 US-PATENT-CLASS-260-900 US-PATENT-CLASS-260-92.1 US-PATENT-3,931,132	N76-17656* c 45 NASA-CASE-LAR-11675-1 US-PATENT-APPL-SN-557448 US-PATENT-CLASS-178-DIG.1 US-PATENT-CLASS-178-DIG.8 US-PATENT-CLASS-178-6.8 US-PATENT-CLASS-250-373 US-PATENT-CLASS-340-237S US-PATENT-CLASS-356-207 US-PATENT-3,931,462
N76-15311*	c 27	NASA-CASE-NPO-13120-1 US-PATENT-APPL-SN-348422 US-PATENT-CLASS-29-182.5 US-PATENT-3,926,567	N76-16229* c 27 NASA-CASE-LEW-11179-1 US-PATENT-APPL-SN-357312 US-PATENT-CLASS-29-195A US-PATENT-CLASS-427-203 US-PATENT-CLASS-427-204 US-PATENT-CLASS-427-205 US-PATENT-CLASS-427-270 US-PATENT-CLASS-427-275 US-PATENT-CLASS-427-287 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-469 US-PATENT-CLASS-428-539 US-PATENT-3,931,447	N76-17951* c 75 NASA-CASE-MFS-22145-2 US-PATENT-APPL-SN-367606 US-PATENT-APPL-SN-500982 US-PATENT-CLASS-124-1 US-PATENT-CLASS-124-11R US-PATENT-CLASS-89-8 US-PATENT-3,929,119
N76-15329*	c 32	NASA-CASE-GSC-11968-1 US-PATENT-APPL-SN-512825 US-PATENT-CLASS-343-779 US-PATENT-CLASS-343-837 US-PATENT-CLASS-343-876 US-PATENT-3,927,408	N76-16230* c 27 NASA-CASE-ARC-10813-1 US-PATENT-APPL-SN-437556 US-PATENT-CLASS-264-331 US-PATENT-CLASS-428-412 US-PATENT-CLASS-428-413 US-PATENT-CLASS-428-447 US-PATENT-CLASS-428-911 US-PATENT-CLASS-428-920 US-PATENT-CLASS-428-921 US-PATENT-3,928,708	N76-18117* c 07 NASA-CASE-LAR-11674-1 US-PATENT-APPL-SN-331759 US-PATENT-APPL-SN-488616 US-PATENT-CLASS-181-33HC US-PATENT-CLASS-239-265.11 US-PATENT-3,938,742
N76-15330*	c 32	NASA-CASE-LAR-11112-1 US-PATENT-APPL-SN-491419 US-PATENT-CLASS-343-786 US-PATENT-3,924,237	N76-16249* c 32 NASA-CASE-MSC-14557-1 US-PATENT-APPL-SN-428994 US-PATENT-APPL-SN-464720 US-PATENT-CLASS-178-69C US-PATENT-CLASS-178-88 US-PATENT-CLASS-325-321 US-PATENT-3,924,068	N76-18245* c 25 NASA-CASE-NPO-13063-1 US-PATENT-APPL-SN-227977 US-PATENT-CLASS-23-230M US-PATENT-CLASS-23-230R US-PATENT-CLASS-23-232C US-PATENT-CLASS-23-253R US-PATENT-CLASS-23-254R US-PATENT-CLASS-23-255R US-PATENT-CLASS-235-151.13 US-PATENT-CLASS-73-23.1 US-PATENT-3,860,393
N76-15373*	c 33	NASA-CASE-LEW-11938-1 US-PATENT-APPL-SN-544611 US-PATENT-CLASS-317-258 US-PATENT-CLASS-317-261 US-PATENT-3,924,164	N76-16331* c 33 NASA-CASE-MSC-14649-1 US-PATENT-APPL-SN-505819 US-PATENT-CLASS-324-79D US-PATENT-CLASS-328-134 US-PATENT-3,924,183	N76-18257* c 26 NASA-CASE-MFS-22907-1 US-PATENT-APPL-SN-518546 US-PATENT-CLASS-324-34R US-PATENT-3,938,037
N76-15431*	c 35	NASA-CASE-MSC-13802-2 US-PATENT-APPL-SN-189438 US-PATENT-APPL-SN-475338 US-PATENT-CLASS-250-251 US-PATENT-CLASS-250-287 US-PATENT-CLASS-250-423 US-PATENT-3,916,187	N76-16332* c 33 NASA-CASE-GSC-11849-1 US-PATENT-APPL-SN-470428 US-PATENT-CLASS-174-145 US-PATENT-CLASS-174-148 US-PATENT-CLASS-339-143C US-PATENT-CLASS-339-198R US-PATENT-CLASS-339-242 US-PATENT-CLASS-339-275R US-PATENT-3,931,456	N76-18295* c 32 NASA-CASE-GSC-11862-1 US-PATENT-APPL-SN-500979 US-PATENT-CLASS-343-837 US-PATENT-CLASS-343-840 US-PATENT-CLASS-343-912 US-PATENT-CLASS-343-915 US-PATENT-3,938,162
N76-15432*	c 35	NASA-CASE-LAR-11435-1 US-PATENT-APPL-SN-522556 US-PATENT-CLASS-310-8.2 US-PATENT-CLASS-73-1R US-PATENT-3,924,444	N76-16390* c 35 NASA-CASE-NPO-13388-1 US-PATENT-APPL-SN-522552 US-PATENT-CLASS-324-43R US-PATENT-3,924,176	N76-18345* c 33 NASA-CASE-NPO-13385-1 US-PATENT-APPL-SN-501011 US-PATENT-CLASS-340-347AD US-PATENT-3,938,188
N76-15433*	c 35	NASA-CASE-GSC-11892-1 US-PATENT-APPL-SN-502135 US-PATENT-CLASS-250-336 US-PATENT-CLASS-250-385 US-PATENT-CLASS-250-489 US-PATENT-3,927,324	N76-16391* c 35 NASA-CASE-NPO-10166-2 US-PATENT-APPL-SN-192803 US-PATENT-APPL-SN-668116 US-PATENT-CLASS-360-10 US-PATENT-CLASS-360-101 US-PATENT-CLASS-360-35 US-PATENT-CLASS-360-9 US-PATENT-3,924,267	N76-18353* c 33 NASA-CASE-GSC-11925-1 US-PATENT-APPL-SN-538983 US-PATENT-CLASS-360-26 US-PATENT-CLASS-360-51 US-PATENT-3,938,182
N76-15434*	c 35	NASA-CASE-LEW-11072-2 US-PATENT-APPL-SN-254323 US-PATENT-CLASS-136-211 US-PATENT-CLASS-136-212 US-PATENT-CLASS-136-225 US-PATENT-3,925,104	N76-16392* c 35 NASA-CASE-LAR-11458-1 US-PATENT-APPL-SN-504225 US-PATENT-CLASS-294-1R US-PATENT-CLASS-294-19R US-PATENT-3,929,364	N76-18364* c 34 NASA-CASE-LAR-11570-1 US-PATENT-APPL-SN-482967 US-PATENT-CLASS-244-23D US-PATENT-CLASS-60-316 US-PATENT-3,940,097
N76-15435*	c 35	NASA-CASE-NPO-13506-1 US-PATENT-APPL-SN-483851 US-PATENT-CLASS-343-909 US-PATENT-3,924,239	N76-16393* c 35 NASA-CASE-GSC-11889-1 US-PATENT-APPL-SN-502124 US-PATENT-CLASS-250-281 US-PATENT-CLASS-250-287 US-PATENT-CLASS-250-288 US-PATENT-CLASS-250-385 US-PATENT-CLASS-250-423 US-PATENT-3,931,516	N76-18374* c 34 NASA-CASE-MFS-22938-1 US-PATENT-APPL-SN-542754 US-PATENT-CLASS-250-335 US-PATENT-3,940,621
N76-15436*	c 35	NASA-CASE-GSC-11895-1 US-PATENT-APPL-SN-511887 US-PATENT-CLASS-331-3 US-PATENT-CLASS-331-94 US-PATENT-3,924,200	N76-16446* # c 37 NASA-CASE-NPO-13342-1 US-PATENT-APPL-SN-390049	N76-18400* c 35 NASA-CASE-LAR-10208-1 US-PATENT-APPL-SN-483858 US-PATENT-CLASS-73-103 US-PATENT-CLASS-73-95 US-PATENT-3,938,373
N76-15457*	c 37	NASA-CASE-MFS-22707-1 US-PATENT-APPL-SN-535410 US-PATENT-CLASS-214-1R US-PATENT-CLASS-74-384 US-PATENT-CLASS-74-665B US-PATENT-3,922,930	N76-16612* c 44 NASA-CASE-MFS-22002-1 US-PATENT-APPL-SN-452769 US-PATENT-CLASS-136-202 US-PATENT-CLASS-136-210 US-PATENT-CLASS-165-105 US-PATENT-CLASS-310-4 US-PATENT-3,931,532	N76-18401* c 35 NASA-CASE-NPO-13396-1 US-PATENT-APPL-SN-563283 US-PATENT-CLASS-55-261 US-PATENT-CLASS-73-28 US-PATENT-CLASS-73-421.5R US-PATENT-3,938,367
N76-15460*	c 37	NASA-CASE-MFS-22022-1 US-PATENT-APPL-SN-405341 US-PATENT-CLASS-214-ICM US-PATENT-3,923,166	N76-17185* c 18 NASA-CASE-MSC-12561-1 US-PATENT-APPL-SN-448323 US-PATENT-CLASS-244-162	N76-18402* c 35 NASA-CASE-MFS-22517-1 US-PATENT-APPL-SN-506804 US-PATENT-CLASS-350-3.5 US-PATENT-3,937,555
N76-15461*	c 37	NASA-CASE-LEW-11076-4 US-PATENT-APPL-SN-238264 US-PATENT-APPL-SN-346483 US-PATENT-APPL-SN-445178 US-PATENT-CLASS-308-122 US-PATENT-CLASS-308-160 US-PATENT-CLASS-308-72 US-PATENT-CLASS-308-73 US-PATENT-CLASS-308-9 US-PATENT-3,926,482		N76-18403* c 35 NASA-CASE-ARC-10322-1 US-PATENT-APPL-SN-484209 US-PATENT-CLASS-23-254EF US-PATENT-3,938,956
N76-15860*	c 72	NASA-CASE-LEW-11866-1		N76-18427* c 36 NASA-CASE-NPO-11945-1 US-PATENT-APPL-SN-269450 US-PATENT-CLASS-331-94.5

		US-PATENT-CLASS-332-7.51	N76-19436*	c 37	NASA-CASE-MFS-20607-1	US-PATENT-CLASS-33-1G
		US-PATENT-CLASS-350-150			US-PATENT-APPL-SN-478800	US-PATENT-CLASS-33-174B
		US-PATENT-CLASS-350-160			US-PATENT-CLASS-222-145	US-PATENT-3,945,879
		US-PATENT-CLASS-423-352			US-PATENT-CLASS-259-44C	N76-21742* c 45 NASA-CASE-NPO-13474-1
		US-PATENT-CLASS-423-644			US-PATENT-3,941,355	US-PATENT-APPL-SN-521817
N76-18428*	c 36	US-PATENT-3,806,834	N76-19437*	c 37	NASA-CASE-MSC-12615-1	US-PATENT-CLASS-23-254E
		NASA-CASE-NPO-13544-1			US-PATENT-APPL-SN-491417	US-PATENT-CLASS-250-574
		US-PATENT-APPL-SN-533555			US-PATENT-CLASS-244-117A	US-PATENT-CLASS-356-37
		US-PATENT-CLASS-331-94.5C			US-PATENT-CLASS-244-163	US-PATENT-3,945,801
		US-PATENT-CLASS-350-96WG			US-PATENT-CLASS-29-432	N76-21914* c 60 NASA-CASE-NPO-13139-1
		US-PATENT-3,939,439			US-PATENT-CLASS-29-433	US-PATENT-APPL-SN-393524
N76-18454*	c 37	NASA-CASE-MFS-23047-1			US-PATENT-CLASS-29-526	US-PATENT-CLASS-235-153AE
		US-PATENT-APPL-SN-521602			US-PATENT-CLASS-52-705	US-PATENT-CLASS-340-172.5
		US-PATENT-CLASS-173-132			US-PATENT-CLASS-52-758F	US-PATENT-3,950,729
		US-PATENT-CLASS-29-81D			US-PATENT-3,936,927	N76-22154* c 02 NASA-CASE-LAR-10585-1
		US-PATENT-CLASS-72-453	N76-19785*	c 52	NASA-CASE-LAR-11667-1	US-PATENT-APPL-SN-197183
		US-PATENT-CLASS-73-399			US-PATENT-APPL-SN-583487	US-PATENT-CLASS-244-35R
		US-PATENT-3,937,055			US-PATENT-CLASS-128-DIG.20	US-PATENT-CLASS-244-40R
N76-18455*	c 37	NASA-CASE-MSC-14435-1			US-PATENT-CLASS-128-26	US-PATENT-3,952,971
		US-PATENT-APPL-SN-450500			US-PATENT-3,937,215	N76-22245* c 17 NASA-CASE-GSC-11868-1
		US-PATENT-CLASS-228-193	N76-19888*	c 66	NASA-CASE-MFS-22631-1	US-PATENT-APPL-SN-565290
		US-PATENT-CLASS-228-206			US-PATENT-APPL-SN-531572	US-PATENT-CLASS-178-69.5
		US-PATENT-CLASS-228-214			US-PATENT-CLASS-340-38P	US-PATENT-CLASS-328-155
		US-PATENT-CLASS-228-238			US-PATENT-CLASS-356-162	US-PATENT-CLASS-340-147SY
		US-PATENT-3,937,387			US-PATENT-CLASS-356-167	US-PATENT-CLASS-340-207P
N76-18456*	c 37	NASA-CASE-LAR-11224-1			US-PATENT-CLASS-356-71	US-PATENT-3,953,674
		US-PATENT-APPL-SN-450502	N76-19935*	c 74	NASA-CASE-MFS-21672-1	N76-22284* c 19 NASA-CASE-MFS-22905-1
		US-PATENT-CLASS-134-21			US-PATENT-APPL-SN-354060	US-PATENT-APPL-SN-518545
		US-PATENT-CLASS-134-37			US-PATENT-CLASS-356-123	US-PATENT-CLASS-188-1B
		US-PATENT-CLASS-19-205			US-PATENT-CLASS-356-124	US-PATENT-CLASS-248-22
		US-PATENT-CLASS-209-250			US-PATENT-3,938,892	US-PATENT-CLASS-248-358R
		US-PATENT-CLASS-209-300			US-PATENT-3,938,892	US-PATENT-3,952,980
		US-PATENT-CLASS-209-305	N76-20114*	c 04	NASA-CASE-LAR-11387-1	N76-22296* c 20 NASA-CASE-MFS-19220-1
		US-PATENT-3,937,661			US-PATENT-APPL-SN-531647	US-PATENT-APPL-SN-571821
N76-18457*	c 37	NASA-CASE-NPO-13402-1			US-PATENT-CLASS-33-356	US-PATENT-CLASS-254-124
		US-PATENT-APPL-SN-387342			US-PATENT-CLASS-75-178R	US-PATENT-CLASS-254-93R
		US-PATENT-CLASS-123-DIG.12			US-PATENT-3,943,763	US-PATENT-CLASS-89-1.801
		US-PATENT-CLASS-123-119E	N76-20480*	c 37	NASA-CASE-NPO-13059-1	US-PATENT-3,952,998
		US-PATENT-CLASS-123-120			NASA-CASE-NPO-13436-1	N76-22309* c 24 NASA-CASE-LEW-11930-1
		US-PATENT-CLASS-123-121			US-PATENT-APPL-SN-513690	US-PATENT-APPL-SN-513611
		US-PATENT-CLASS-123-89A			US-PATENT-CLASS-81-56	US-PATENT-CLASS-252-12
		US-PATENT-3,906,913			US-PATENT-CLASS-81-57.31	US-PATENT-3,953,343
N76-18458*	c 37	NASA-CASE-LEW-11860-1			US-PATENT-3,942,398	N76-22323* c 25 NASA-CASE-ARC-10760-1
		US-PATENT-APPL-SN-527728			NASA-CASE-ARC-10631-1	US-PATENT-APPL-SN-526438
		US-PATENT-CLASS-204-157.1H	N76-20958*	c 74	US-PATENT-APPL-SN-514546	US-PATENT-CLASS-250-343
		US-PATENT-CLASS-250-527			US-PATENT-CLASS-250-343	US-PATENT-CLASS-250-344
		US-PATENT-3,939,048			US-PATENT-CLASS-250-573	US-PATENT-CLASS-250-432R
N76-18459*	c 37	NASA-CASE-GSC-11551-1			US-PATENT-3,943,368	US-PATENT-3,953,734
		US-PATENT-APPL-SN-440917	N76-20994*	c 76	NASA-CASE-NPO-13443-1	N76-22376* c 27 NASA-CASE-ARC-10721-1
		US-PATENT-CLASS-308-10			US-PATENT-APPL-SN-522551	US-PATENT-APPL-SN-427755
		US-PATENT-3,937,533			US-PATENT-CLASS-324-158D	US-PATENT-CLASS-264-60
N76-18641*	c 44	NASA-CASE-NPO-13237-1			US-PATENT-CLASS-324-158R	US-PATENT-CLASS-264-63
		US-PATENT-APPL-SN-378127			US-PATENT-CLASS-324-158T	US-PATENT-CLASS-264-66
		US-PATENT-CLASS-136-83R			US-PATENT-CLASS-324-60C	US-PATENT-3,952,083
		US-PATENT-CLASS-136-86S			US-PATENT-3,943,442	N76-22377* c 27 NASA-CASE-MSC-14270-1
		US-PATENT-3,894,887	N76-21250*	c 17	NASA-CASE-MSC-12593-1	US-PATENT-APPL-SN-482104
N76-18642*	c 44	NASA-CASE-NPO-13464-1			US-PATENT-APPL-SN-419747	US-PATENT-CLASS-106-54
		US-PATENT-APPL-SN-428444			US-PATENT-CLASS-325-14	US-PATENT-CLASS-427-376
		US-PATENT-CLASS-123-3			US-PATENT-CLASS-343-100SA	US-PATENT-CLASS-427-379
		US-PATENT-CLASS-23-281			US-PATENT-CLASS-343-100ST	US-PATENT-CLASS-427-380
		US-PATENT-CLASS-423-650			US-PATENT-CLASS-343-112TC	US-PATENT-CLASS-427-402
		US-PATENT-CLASS-48-116			US-PATENT-3,949,400	US-PATENT-CLASS-428-332
		US-PATENT-CLASS-48-117	N76-21275*	c 20	NASA-CASE-MFS-21311-1	US-PATENT-CLASS-428-428
		US-PATENT-CLASS-48-63			US-PATENT-APPL-SN-493359	US-PATENT-CLASS-428-450
		US-PATENT-CLASS-48-75			US-PATENT-CLASS-244-3.22	US-PATENT-CLASS-428-538
		US-PATENT-CLASS-48-95			US-PATENT-3,948,470	US-PATENT-CLASS-428-920
		US-PATENT-3,920,416	N76-21276*	c 20	NASA-CASE-LEW-11876-1	US-PATENT-3,953,646
N76-18643*	c 44	NASA-CASE-NPO-11961-1			US-PATENT-APPL-SN-542157	N76-22509* c 35 NASA-CASE-LAR-11434-1
		US-PATENT-APPL-SN-378126			US-PATENT-CLASS-29-25.18	US-PATENT-APPL-SN-464722
		US-PATENT-CLASS-136-30			US-PATENT-3,947,933	US-PATENT-CLASS-209-127R
		US-PATENT-CLASS-136-6LF			NASA-CASE-NPO-13568-1	US-PATENT-CLASS-317-246
		US-PATENT-CLASS-320-21	N76-21365*	c 32	US-PATENT-APPL-SN-534265	US-PATENT-CLASS-324-61R
		US-PATENT-CLASS-320-22			US-PATENT-CLASS-343-761	US-PATENT-CLASS-324-71CP
		US-PATENT-3,912,999			US-PATENT-CLASS-343-781	US-PATENT-3,953,792
N76-18800*	c 60	NASA-CASE-NPO-13067-1			US-PATENT-CLASS-343-786	N76-22540* c 37 NASA-CASE-MFS-22636-1
		US-PATENT-APPL-SN-274348			US-PATENT-3,949,404	US-PATENT-APPL-SN-536762
		US-PATENT-CLASS-340-172.5	N76-21366*	c 32	NASA-CASE-MFS-22729-1	US-PATENT-CLASS-114-16.6
		US-PATENT-3,829,839			US-PATENT-APPL-SN-533608	US-PATENT-CLASS-244-137P
N76-18913*	c 74	NASA-CASE-GSC-11877-1			US-PATENT-CLASS-235-156	US-PATENT-CLASS-244-158
		US-PATENT-APPL-SN-482953			US-PATENT-CLASS-325-42	US-PATENT-CLASS-244-161
		US-PATENT-CLASS-235-184			US-PATENT-CLASS-333-18	US-PATENT-3,952,976
		US-PATENT-CLASS-250-199			US-PATENT-3,949,206	N76-22541* c 37 NASA-CASE-LEW-11676-1
		US-PATENT-3,937,945			NASA-CASE-ARC-10711-2	US-PATENT-APPL-SN-551184
N76-19338*	c 33	NASA-CASE-NPO-13519-1			US-PATENT-APPL-SN-493363	US-PATENT-CLASS-277-4
		US-PATENT-APPL-SN-536761			US-PATENT-APPL-SN-596788	US-PATENT-CLASS-277-41
		US-PATENT-CLASS-128-2S			US-PATENT-CLASS-317-246	US-PATENT-CLASS-277-74
		US-PATENT-CLASS-33-155R			US-PATENT-CLASS-73-398C	US-PATENT-CLASS-277-93R
		US-PATENT-CLASS-33-174D			US-PATENT-3,948,102	US-PATENT-3,953,038
		US-PATENT-CLASS-73-88.5SD	N76-21554*	c 37	NASA-CASE-LAR-11465-1	N76-22657* c 44 NASA-CASE-MFS-22743-1
		US-PATENT-3,937,212			US-PATENT-APPL-SN-502137	US-PATENT-APPL-SN-518684
N76-19339*	c 33	NASA-CASE-ARC-10810-1			US-PATENT-CLASS-156-286	US-PATENT-CLASS-126-71
		US-PATENT-APPL-SN-489009			US-PATENT-CLASS-156-382	US-PATENT-3,951,129
		US-PATENT-CLASS-204-195R			US-PATENT-CLASS-156-556	N76-22914* c 54 NASA-CASE-GSC-12082-1
		US-PATENT-CLASS-215-247			US-PATENT-CLASS-248-362	US-PATENT-APPL-SN-676958
		US-PATENT-CLASS-324-30B			US-PATENT-CLASS-248-363	N76-22993* c 74 NASA-CASE-ARC-10932-1
		US-PATENT-3,938,035			US-PATENT-CLASS-269-21	US-PATENT-APPL-SN-681001

ACCESSION NUMBER INDEX

N76-29895

N76-23273*	c 09	NASA-CASE-MFS-23099-1 US-PATENT-APPL-SN-607969 US-PATENT-CLASS-73-147 US-PATENT-3,952,590	US-PATENT-CLASS-128-203 US-PATENT-CLASS-137-DIG.9 US-PATENT-CLASS-137-110 US-PATENT-3,957,044	US-PATENT-APPL-SN-496779 US-PATENT-CLASS-244-46 US-PATENT-3,971,535
N76-23426*	c 27	NASA-CASE-MSC-14270-2 US-PATENT-APPL-SN-482105 US-PATENT-CLASS-106-54 US-PATENT-CLASS-427-376 US-PATENT-CLASS-427-379 US-PATENT-CLASS-427-380 US-PATENT-CLASS-427-402 US-PATENT-CLASS-428-332 US-PATENT-CLASS-428-428 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-538 US-PATENT-CLASS-428-920 US-PATENT-3,955,034	N76-25049* c 76 NASA-CASE-LEW-12094-1 US-PATENT-APPL-SN-508784 US-PATENT-CLASS-148-175 US-PATENT-CLASS-156-610 US-PATENT-CLASS-156-612 US-PATENT-CLASS-156-613 US-PATENT-CLASS-252-62.3 US-PATENT-CLASS-423-345 US-PATENT-CLASS-423-346 US-PATENT-3,956,032	N76-29347* c 17 NASA-CASE-ARC-10849-1 US-PATENT-APPL-SN-563049 US-PATENT-CLASS-340-189M US-PATENT-CLASS-340-206 US-PATENT-CLASS-73-493 US-PATENT-CLASS-73-517R US-PATENT-3,972,038
N76-23570*	c 37	NASA-CASE-LEW-11169-1 US-PATENT-APPL-SN-446568 US-PATENT-CLASS-164-132 US-PATENT-3,957,104	N76-26175* c 04 NASA-CASE-MFS-23551-1 US-PATENT-APPL-SN-114772 US-PATENT-CLASS-244-79 US-PATENT-CLASS-74-5.34 US-PATENT-3,739,646	N76-29379* c 25 NASA-CASE-LEW-11390-3 US-PATENT-APPL-SN-247434 US-PATENT-APPL-SN-380046 US-PATENT-CLASS-176-11 US-PATENT-CLASS-176-14 US-PATENT-CLASS-176-16 US-PATENT-CLASS-250-400 US-PATENT-CLASS-250-429 US-PATENT-CLASS-250-492R US-PATENT-3,971,697
N76-23675*	c 44	NASA-CASE-MFS-21628-2 US-PATENT-APPL-SN-421702 US-PATENT-APPL-SN-561020 US-PATENT-CLASS-126-270 US-PATENT-CLASS-165-133 US-PATENT-3,957,030	N76-27232* c 07 NASA-CASE-LAR-11476-1 US-PATENT-APPL-SN-592159 US-PATENT-CLASS-73-557 US-PATENT-3,964,319	N76-29551* c 35 NASA-CASE-LAR-10907-1 US-PATENT-APPL-SN-559845 US-PATENT-CLASS-250-340 US-PATENT-CLASS-250-353 US-PATENT-3,971,940
N76-23850*	c 60	NASA-CASE-MSC-14082-1 US-PATENT-APPL-SN-315070 US-PATENT-CLASS-340-347DD US-PATENT-CLASS-340-347P US-PATENT-3,958,238	N76-27383* c 25 NASA-CASE-LEW-11390-2 US-PATENT-APPL-SN-247434 US-PATENT-APPL-SN-340863 US-PATENT-CLASS-176-11 US-PATENT-CLASS-176-16 US-PATENT-CLASS-423-249 US-PATENT-3,966,547	N76-29552* c 35 NASA-CASE-MSC-12617-1 US-PATENT-APPL-SN-513576 US-PATENT-CLASS-235-61NV US-PATENT-CLASS-235-78M US-PATENT-CLASS-235-88M US-PATENT-3,971,915
N76-24280*	c 09	NASA-CASE-ARC-10808-1 US-PATENT-APPL-SN-505881 US-PATENT-CLASS-178-DIG.35 US-PATENT-CLASS-178-7.89 US-PATENT-CLASS-35-12N US-PATENT-3,956,833	N76-27472* c 33 NASA-CASE-GSC-11924-1 US-PATENT-APPL-SN-582318 US-PATENT-CLASS-343-755 US-PATENT-CLASS-343-779 US-PATENT-CLASS-343-854 US-PATENT-3,965,475	N76-29575* c 36 NASA-CASE-NPO-13346-1 US-PATENT-APPL-SN-533556 US-PATENT-CLASS-330-4.3 US-PATENT-CLASS-331-94.5C US-PATENT-3,972,008
N76-24363*	c 24	NASA-CASE-GSC-11786-1 US-PATENT-APPL-SN-401919 US-PATENT-CLASS-106-306 US-PATENT-CLASS-250-372 US-PATENT-CLASS-252-300 US-PATENT-CLASS-350-1 US-PATENT-3,957,675	N76-27473* c 33 NASA-CASE-HQN-10876-1 US-PATENT-APPL-SN-555336 US-PATENT-CLASS-250-336 US-PATENT-CLASS-250-372 US-PATENT-3,965,354	N76-29588* c 37 NASA-CASE-LEW-11949-1 US-PATENT-APPL-SN-590182 US-PATENT-CLASS-308-160 US-PATENT-CLASS-308-163 US-PATENT-CLASS-308-170 US-PATENT-3,971,602
N76-24405*	c 27	NASA-CASE-MSC-14331-1 US-PATENT-APPL-SN-374421 US-PATENT-CLASS-106-15FP US-PATENT-CLASS-260-DIG.24 US-PATENT-CLASS-260-33.8F US-PATENT-CLASS-260-45.7 US-PATENT-CLASS-260-92.1 US-PATENT-CLASS-526-1 US-PATENT-CLASS-526-255 US-PATENT-3,956,233	N76-27515* c 34 NASA-CASE-NPO-13391-1 US-PATENT-APPL-SN-446567 US-PATENT-CLASS-165-105 US-PATENT-CLASS-29-182 US-PATENT-CLASS-29-193 US-PATENT-CLASS-55-523 US-PATENT-CLASS-55-526 US-PATENT-CLASS-75-225 US-PATENT-3,964,902	N76-29590* c 37 NASA-CASE-NPO-13613-1 US-PATENT-APPL-SN-574208 US-PATENT-CLASS-62-6 US-PATENT-3,971,230
N76-24523*	c 35	NASA-CASE-LAR-11500-1 US-PATENT-APPL-SN-534266 US-PATENT-CLASS-73-1B US-PATENT-CLASS-73-15.6 US-PATENT-3,956,919	N76-27517* c 34 NASA-CASE-ARC-10755-2 US-PATENT-APPL-SN-424013 US-PATENT-APPL-SN-545284 US-PATENT-CLASS-73-147 US-PATENT-CLASS-73-189 US-PATENT-CLASS-73-194R US-PATENT-3,964,306	N76-29699* c 44 NASA-CASE-HQN-10862-1 US-PATENT-APPL-SN-604374 US-PATENT-CLASS-136-143 US-PATENT-CLASS-136-30 US-PATENT-3,972,727
N76-24524*	c 35	NASA-CASE-NPO-13462-1 US-PATENT-APPL-SN-545282 US-PATENT-CLASS-73-189 US-PATENT-CLASS-73-204 US-PATENT-3,956,932	N76-27567* c 37 NASA-CASE-LAR-11709-1 US-PATENT-APPL-SN-548468 US-PATENT-CLASS-339-17M US-PATENT-CLASS-339-18C US-PATENT-3,964,813	N76-29700* c 44 NASA-CASE-NPO-13342-2 US-PATENT-APPL-SN-390049 US-PATENT-APPL-SN-548559 US-PATENT-CLASS-123-1A US-PATENT-CLASS-123-3 US-PATENT-CLASS-23-281 US-PATENT-CLASS-423-650 US-PATENT-CLASS-48-215 US-PATENT-CLASS-48-95 US-PATENT-3,955,941
N76-24525*	c 35	NASA-CASE-ARC-10816-1 US-PATENT-APPL-SN-552454 US-PATENT-CLASS-128-DIG.4 US-PATENT-CLASS-128-2.05V US-PATENT-CLASS-128-2.1E US-PATENT-CLASS-128-2.1Z US-PATENT-3,957,037	N76-27568* c 37 NASA-CASE-LAR-11726-1 US-PATENT-APPL-SN-538047 US-PATENT-CLASS-219-118 US-PATENT-CLASS-219-92 US-PATENT-3,967,091	N76-29701* c 44 NASA-CASE-NPO-13567-1 US-PATENT-APPL-SN-566493 US-PATENT-CLASS-417-141 US-PATENT-CLASS-417-207 US-PATENT-CLASS-417-209 US-PATENT-CLASS-417-379 US-PATENT-CLASS-60-517 US-PATENT-CLASS-62-6 US-PATENT-3,972,651
N76-24553*	c 36	NASA-CASE-NPO-13531-1 US-PATENT-APPL-SN-531565 US-PATENT-CLASS-331-94.5C US-PATENT-CLASS-350-96WG US-PATENT-3,958,188	N76-27664* c 44 NASA-CASE-MFS-23059-1 US-PATENT-APPL-SN-537024 US-PATENT-CLASS-136-86A US-PATENT-3,964,928	N76-29704* c 44 NASA-CASE-NPO-13464-2 US-PATENT-APPL-SN-428444 US-PATENT-APPL-SN-553687 US-PATENT-CLASS-252-373 US-PATENT-CLASS-42-215 US-PATENT-CLASS-423-650 US-PATENT-CLASS-431-163 US-PATENT-CLASS-431-210 US-PATENT-CLASS-431-4 US-PATENT-CLASS-48-197R US-PATENT-3,971,847
N76-24575*	c 37	NASA-CASE-LAR-10073-1 US-PATENT-APPL-SN-436317 US-PATENT-CLASS-156-242 US-PATENT-CLASS-156-286 US-PATENT-CLASS-264-102 US-PATENT-CLASS-264-267 US-PATENT-CLASS-428-117 US-PATENT-3,956,050	N76-28563* c 38 NASA-CASE-NPO-12142-1 US-PATENT-APPL-SN-637249 US-PATENT-CLASS-73-88.5 US-PATENT-3,545,262	N76-29891* c 51 NASA-CASE-GSC-11917-2 US-PATENT-APPL-SN-475337 US-PATENT-APPL-SN-555641 US-PATENT-CLASS-195-103.5R US-PATENT-3,971,703
N76-24696*	c 44	NASA-CASE-MFS-22744-1 US-PATENT-APPL-SN-518544 US-PATENT-CLASS-126-270 US-PATENT-CLASS-126-271 US-PATENT-CLASS-350-293 US-PATENT-CLASS-350-299 US-PATENT-3,958,553	N76-28635* c 44 NASA-CASE-GSC-12022-1 NASA-CASE-GSC-12023-1 US-PATENT-APPL-SN-576488 US-PATENT-CLASS-136-89 US-PATENT-CLASS-148-174 US-PATENT-CLASS-148-175 US-PATENT-CLASS-156-612 US-PATENT-CLASS-156-613 US-PATENT-CLASS-156-614 US-PATENT-CLASS-29-572 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-59 US-PATENT-CLASS-427-113 US-PATENT-CLASS-427-248 US-PATENT-CLASS-427-249 US-PATENT-CLASS-427-250 US-PATENT-CLASS-427-86 US-PATENT-3,961,997	N76-29894* c 52 NASA-CASE-ARC-10583-1 US-PATENT-APPL-SN-301418 US-PATENT-CLASS-128-2.1A US-PATENT-CLASS-128-2H US-PATENT-CLASS-128-2P US-PATENT-3,971,362
N76-24900*	c 54	NASA-CASE-MSC-14733-1 NASA-CASE-MSC-14735-1 US-PATENT-APPL-SN-522971 US-PATENT-CLASS-128-142.2	N76-29217* c 05 NASA-CASE-ARC-10470-3 US-PATENT-APPL-SN-206279 US-PATENT-APPL-SN-321180	N76-29895* c 52 NASA-CASE-NPO-13644-1 US-PATENT-APPL-SN-574218 US-PATENT-CLASS-128-2.05R US-PATENT-CLASS-128-2S

		US-PATENT-CLASS-338-6				US-PATENT-APPL-SN-537480				US-PATENT-CLASS-324-72
		US-PATENT-3,971,363				US-PATENT-CLASS-23-230R				US-PATENT-3,984,730
N76-29896*	c 52	NASA-CASE-NPO-13643-1				US-PATENT-CLASS-23-232E		N77-10463*	c 34	NASA-CASE-MFS-22991-1
		US-PATENT-APPL-SN-57824-1				US-PATENT-CLASS-23-232R				US-PATENT-APPL-SN-521006
		US-PATENT-CLASS-128-2.05E				US-PATENT-3,977,831				US-PATENT-CLASS-165-164
		US-PATENT-CLASS-128-2.06E				NASA-CASE-GSC-12115-1				US-PATENT-CLASS-165-170
		US-PATENT-CLASS-128-2S		N76-31946*	c 62	US-PATENT-APPL-SN-262596				US-PATENT-3,983,933
		US-PATENT-CLASS-128-418				US-PATENT-CLASS-340-347SY		N77-10492*	c 35	NASA-CASE-NPO-13479-1
		US-PATENT-CLASS-128-419P				US-PATENT-3,976,997				US-PATENT-APPL-SN-500981
		US-PATENT-CLASS-73-398AR		N76-31998*	c 74	NASA-CASE-MSC-12640-1				US-PATENT-CLASS-250-290
		US-PATENT-3,971,364				US-PATENT-APPL-SN-591568				US-PATENT-CLASS-250-291
N76-30053*	c 74	NASA-CASE-GSC-11782-1				US-PATENT-CLASS-350-162SF		N77-10493*	c 35	US-PATENT-3,984,681
		US-PATENT-APPL-SN-463925				US-PATENT-3,977,771				NASA-CASE-MFS-23178-1
		US-PATENT-CLASS-250-199		N76-32140*	c 03	NASA-CASE-MFS-16609-3				US-PATENT-APPL-SN-637247
		US-PATENT-3,971,930				US-PATENT-APPL-SN-307714				US-PATENT-CLASS-250-338
N76-30131*	c 91	NASA-CASE-MSC-12423-1				US-PATENT-APPL-SN-511894				US-PATENT-CLASS-250-339
		US-PATENT-APPL-SN-448320				US-PATENT-APPL-SN-82279				US-PATENT-CLASS-250-347
		US-PATENT-CLASS-73-170R				US-PATENT-CLASS-325-114				US-PATENT-CLASS-356-106R
		US-PATENT-CLASS-73-425.2				US-PATENT-CLASS-325-115				US-PATENT-3,984,686
		US-PATENT-CLASS-73-432R				US-PATENT-CLASS-325-186		N77-10584*	c 43	NASA-CASE-MSC-14472-1
		US-PATENT-3,971,256				US-PATENT-CLASS-343-705				US-PATENT-APPL-SN-502138
N76-30793*	c 52	US-PATENT-APPL-SN-452768				US-PATENT-3,978,410				US-PATENT-CLASS-235-181
		US-PATENT-CLASS-351-23		N76-32315*	c 27	NASA-CASE-ARC-10592-2				US-PATENT-CLASS-340-146.3P
		US-PATENT-CLASS-351-30				US-PATENT-APPL-SN-414043				US-PATENT-CLASS-340-146.3Q
		US-PATENT-CLASS-351-36				US-PATENT-CLASS-260-240G				US-PATENT-3,984,671
		US-PATENT-RE-28,921				US-PATENT-CLASS-260-566B		N77-10635*	c 44	NASA-CASE-MFS-22458-1
N76-31365*	c 31	NASA-CASE-ARC-10445-1				US-PATENT-3,965,096				US-PATENT-APPL-SN-571458
		US-PATENT-APPL-SN-491418		N76-32457*	c 33	NASA-CASE-NPO-13553-1				US-PATENT-CLASS-136-89
		US-PATENT-CLASS-313-250				US-PATENT-APPL-SN-616333				US-PATENT-CLASS-29-572
		US-PATENT-CLASS-313-306				US-PATENT-CLASS-343-882				US-PATENT-3,984,256
		US-PATENT-CLASS-313-309				US-PATENT-CLASS-343-915		N77-10636*	c 44	NASA-CASE-NPO-13560-1
		US-PATENT-CLASS-313-338				US-PATENT-3,978,490				NASA-CASE-NPO-13561-1
		US-PATENT-3,978,364		N76-33835* #	c 52	NASA-CASE-ARC-10994-1				US-PATENT-APPL-SN-487156
N76-31372*	c 32	NASA-CASE-NPO-13465-1				US-PATENT-APPL-SN-728369				US-PATENT-CLASS-123-3
		US-PATENT-APPL-SN-531575				NASA-CASE-LAR-11645-1				US-PATENT-CLASS-23-281
		US-PATENT-CLASS-179-1SA		N77-10001*	c 02	US-PATENT-APPL-SN-473973				US-PATENT-CLASS-252-373
		US-PATENT-3,978,287				US-PATENT-CLASS-244-113				US-PATENT-CLASS-423-650
N76-31409*	c 33	NASA-CASE-NPO-12134-1				US-PATENT-CLASS-244-130				US-PATENT-CLASS-431-11
		US-PATENT-APPL-SN-536785				US-PATENT-3,984,070				US-PATENT-CLASS-431-116
		US-PATENT-CLASS-313-94		N77-10071*	c 09	NASA-CASE-NPO-13528-1				US-PATENT-CLASS-431-162
		US-PATENT-CLASS-357-63				US-PATENT-APPL-SN-521620				US-PATENT-CLASS-431-170
		US-PATENT-3,978,360				US-PATENT-CLASS-73-147				US-PATENT-CLASS-431-41
N76-31489*	c 35	NASA-CASE-GSC-11893-1				US-PATENT-3,983,749				US-PATENT-CLASS-48-116
		US-PATENT-APPL-SN-585420				NASA-CASE-MFS-20855-1		N77-10112*	c 15	US-PATENT-CLASS-48-117
		US-PATENT-CLASS-73-9				US-PATENT-APPL-SN-243374				US-PATENT-CLASS-48-117R
		US-PATENT-3,977,231				US-PATENT-CLASS-244-1SD				US-PATENT-CLASS-48-212
N76-31490*	c 35	NASA-CASE-NPO-13604-1				US-PATENT-3,744,739				US-PATENT-CLASS-48-61
		US-PATENT-APPL-SN-574219		N77-10113*	c 15	NASA-CASE-MFS-22787-1				US-PATENT-3,982,910
		US-PATENT-CLASS-356-106S				US-PATENT-APPL-SN-511346		N77-10753*	c 47	NASA-CASE-MFS-23362-1
		US-PATENT-CLASS-356-114				US-PATENT-CLASS-244-169				US-PATENT-APPL-SN-637268
		US-PATENT-CLASS-356-209				US-PATENT-CLASS-244-171				US-PATENT-CLASS-250-338
		US-PATENT-CLASS-356-244				US-PATENT-CLASS-244-3.21				US-PATENT-CLASS-250-339
		US-PATENT-3,977,787				US-PATENT-3,984,072				US-PATENT-CLASS-250-347
N76-31512*	c 36	NASA-CASE-NPO-13490-1		N77-10148*	c 20	NASA-CASE-LEW-12082-1				US-PATENT-CLASS-356-106R
		US-PATENT-APPL-SN-549418				US-PATENT-APPL-SN-612964				US-PATENT-CLASS-250-347
		US-PATENT-CLASS-330-4				US-PATENT-CLASS-313-231.4		N77-10780*	c 52	NASA-CASE-ARC-10855-1
		US-PATENT-CLASS-331-94				US-PATENT-CLASS-313-240				US-PATENT-APPL-SN-617612
		US-PATENT-3,978,417				US-PATENT-CLASS-313-361				US-PATENT-CLASS-128-2H
N76-31524*	c 37	NASA-CASE-NPO-13535-1				US-PATENT-CLASS-315-111.3				US-PATENT-CLASS-73-343R
		US-PATENT-APPL-SN-563050				US-PATENT-CLASS-60-202				US-PATENT-3,983,753
		US-PATENT-CLASS-264-129				US-PATENT-3,983,695		N77-10899*	c 74	NASA-CASE-MSC-19442-1
		US-PATENT-CLASS-264-161		N77-10213*	c 28	NASA-CASE-LAR-11995-1				US-PATENT-APPL-SN-558600
		US-PATENT-CLASS-264-219				US-PATENT-APPL-SN-238826				US-PATENT-CLASS-356-237
		US-PATENT-CLASS-264-304				US-PATENT-CLASS-102-99				US-PATENT-CLASS-356-239
		US-PATENT-CLASS-264-305				US-PATENT-CLASS-264-3R				US-PATENT-3,985,454
		US-PATENT-CLASS-264-308				US-PATENT-CLASS-86-1R		N77-11397*	c 37	NASA-CASE-LAR-11549-1
		US-PATENT-CLASS-264-310				US-PATENT-3,983,780				US-PATENT-APPL-SN-537979
		US-PATENT-CLASS-264-318		N77-10229*	c 31	NASA-CASE-NPO-13459-1				US-PATENT-CLASS-219-118
		US-PATENT-CLASS-264-334				US-PATENT-APPL-SN-598967				US-PATENT-CLASS-219-92
		US-PATENT-CLASS-427-230				US-PATENT-CLASS-62-217				US-PATENT-3,988,561
		US-PATENT-3,978,187				US-PATENT-CLASS-62-514JT		N77-12239*	c 32	NASA-CASE-MSC-12506-1
N76-31562*	c 39	NASA-CASE-MSC-19372-1				US-PATENT-3,983,714				US-PATENT-APPL-SN-545283
		US-PATENT-APPL-SN-517995		N77-10392*	c 32	NASA-CASE-LAR-11827-1				US-PATENT-CLASS-340-347DD
		US-PATENT-CLASS-182-178				US-PATENT-APPL-SN-412379				US-PATENT-3,988,729
		US-PATENT-CLASS-29-467				US-PATENT-APPL-SN-561764		N77-12240*	c 32	NASA-CASE-NPO-13543-1
		US-PATENT-CLASS-29-526				US-PATENT-CLASS-178-88				NASA-CASE-NPO-13545-1
		US-PATENT-CLASS-52-236				US-PATENT-CLASS-235-150.1				US-PATENT-APPL-SN-589173
		US-PATENT-CLASS-52-637				US-PATENT-CLASS-235-156				US-PATENT-CLASS-325-41
		US-PATENT-CLASS-52-648				US-PATENT-CLASS-325-323				US-PATENT-CLASS-340-146.1AL
		US-PATENT-CLASS-52-651				US-PATENT-CLASS-325-349				US-PATENT-CLASS-340-146.1AQ
		US-PATENT-CLASS-52-726				US-PATENT-CLASS-325-476				US-PATENT-CLASS-340-146.1AV
		US-PATENT-CLASS-52-745				US-PATENT-3,984,634		N77-12402*	c 37	US-PATENT-3,988,677
		US-PATENT-CLASS-52-749		N77-10428*	c 33	NASA-CASE-NPO-13512-1				NASA-CASE-MFS-23062-1
		US-PATENT-3,977,147				US-PATENT-APPL-SN-533734				US-PATENT-APPL-SN-591569
N76-31666*	c 44	NASA-CASE-NPO-13087-2				US-PATENT-CLASS-321-19				US-PATENT-CLASS-60-527
		US-PATENT-APPL-SN-296622				US-PATENT-CLASS-321-2				US-PATENT-3,987,630
		US-PATENT-APPL-SN-462341				US-PATENT-CLASS-323-DIG.1		N77-12721*	c 60	NASA-CASE-NPO-13428-1
		US-PATENT-CLASS-136-206				US-PATENT-CLASS-323-17				NASA-CASE-NPO-13447-1
		US-PATENT-CLASS-136-89				US-PATENT-CLASS-323-22T				US-PATENT-APPL-SN-495022
		US-PATENT-3,966,499				US-PATENT-CLASS-323-23				US-PATENT-CLASS-179-158A
N76-31667*	c 44	NASA-CASE-MFS-23167-1				US-PATENT-3,984,799				US-PATENT-CLASS-328-111
		US-PATENT-APPL-SN-602618		N77-10429*	c 33	NASA-CASE-GSC-11963-1				US-PATENT-CLASS-340-172.5
		US-PATENT-CLASS-165-10				US-PATENT-APPL-SN-595197				US-PATENT-3,988,716
		US-PATENT-CLASS-60-659				US-PATENT-CLASS-244-1A		N77-13217*	c 27	NASA-CASE-NPO-13666-1
		US-PATENT-3,977,197				US-PATENT-CLASS-244-42CG				US-PATENT-APPL-SN-633877
N76-31714*	c 45	NASA-CASE-LAR-11405-1				US-PATENT-CLASS-317-2D				US-PATENT-CLASS-29-182.5

N77-13315*	c 33	US-PATENT-3,990,860	N77-14581*	c 44	US-PATENT-3,996,067	N77-18154*	c 07	US-PATENT-APPL-SN-565289
		NASA-CASE-NPO-11515-1			NASA-CASE-LEW-12220-1			US-PATENT-CLASS-235-92CA
		US-PATENT-APPL-SN-139596			US-PATENT-APPL-SN-606891			US-PATENT-CLASS-235-92CT
		US-PATENT-CLASS-307-233			US-PATENT-CLASS-320-2			US-PATENT-CLASS-235-92DN
		US-PATENT-CLASS-307-295			US-PATENT-CLASS-429-23			US-PATENT-CLASS-235-92R
N77-13418*	c 37	US-PATENT-CLASS-328-133	N77-14735*	c 52	US-PATENT-CLASS-429-34	N77-18307*	c 32	US-PATENT-4,001,552
		US-PATENT-3,750,035			US-PATENT-3,996,064			NASA-CASE-ARC-10761-1
		NASA-CASE-ARC-10905-1			NASA-CASE-MFS-23225-1			US-PATENT-APPL-SN-612899
		US-PATENT-APPL-SN-618594			US-PATENT-APPL-SN-612965			US-PATENT-CLASS-137-15.1
		US-PATENT-CLASS-219-300			US-PATENT-CLASS-3-1.2			US-PATENT-CLASS-244-53B
N77-14025*	c 07	US-PATENT-CLASS-219-304	N77-14736*	c 52	US-PATENT-CLASS-3-14	N77-18382*	c 34	US-PATENT-4,007,891
		US-PATENT-CLASS-239-171			US-PATENT-3,995,324			NASA-CASE-MFS-23303-1
		US-PATENT-CLASS-252-359A			NASA-CASE-ARC-11007-1			US-PATENT-APPL-SN-676957
		US-PATENT-3,990,987			US-PATENT-APPL-SN-652948			US-PATENT-CLASS-333-70R
		NASA-CASE-LEW-12419-1			US-PATENT-CLASS-128-2H			US-PATENT-CLASS-333-75
N77-14292*	c 32	US-PATENT-APPL-SN-579375	N77-14737*	c 52	US-PATENT-CLASS-128-379	N77-18417*	c 35	US-PATENT-CLASS-333-76
		US-PATENT-CLASS-416-153			US-PATENT-CLASS-128-400			US-PATENT-CLASS-333-82B
		US-PATENT-CLASS-416-160			US-PATENT-CLASS-128-402			US-PATENT-4,007,434
		US-PATENT-CLASS-416-162			US-PATENT-3,995,621			NASA-CASE-LAR-10805-2
		US-PATENT-CLASS-416-165			NASA-CASE-MSC-14276-1			US-PATENT-APPL-SN-428992
N77-14333*	c 33	US-PATENT-CLASS-416-167	N77-14738*	c 52	US-PATENT-APPL-SN-557430	N77-18893*	c 74	US-PATENT-APPL-SN-578240
		US-PATENT-CLASS-60-226R			US-PATENT-CLASS-250-363R			US-PATENT-CLASS-244-117A
		US-PATENT-3,994,128			US-PATENT-CLASS-250-444			US-PATENT-CLASS-427-160
		NASA-CASE-LAR-11607-1			US-PATENT-CLASS-250-498			US-PATENT-CLASS-427-322
		US-PATENT-APPL-SN-617895			US-PATENT-3,996,471			US-PATENT-CLASS-428-35
N77-14334*	c 33	US-PATENT-CLASS-325-145	N77-14751*	c 60	NASA-CASE-KSC-10849-1	N77-18891*	c 73	US-PATENT-CLASS-428-421
		US-PATENT-CLASS-332-22			US-PATENT-APPL-SN-613734			US-PATENT-CLASS-428-461
		US-PATENT-CLASS-332-23R			US-PATENT-CLASS-128-418			US-PATENT-CLASS-428-474
		US-PATENT-3,996,532			US-PATENT-CLASS-3-1.1			US-PATENT-4,008,348
		NASA-CASE-GSC-11789-1			US-PATENT-CLASS-339-252R	N77-19056*	c 04	NASA-CASE-ARC-10898-1
N77-14335*	c 33	US-PATENT-APPL-SN-538982	N77-17029*	c 05	US-PATENT-3,995,644			US-PATENT-APPL-SN-625732
		US-PATENT-CLASS-317-31			NASA-CASE-GSC-11839-1			US-PATENT-CLASS-73-12
		US-PATENT-CLASS-321-13			US-PATENT-APPL-SN-468614			US-PATENT-CLASS-73-432SD
		US-PATENT-3,996,506			US-PATENT-CLASS-235-152			US-PATENT-CLASS-73-71.6
		NASA-CASE-GSC-12018-1			US-PATENT-CLASS-250-227	N77-19076*	c 09	US-PATENT-4,007,623
N77-14406*	c 35	US-PATENT-APPL-SN-635531	N77-17059*	c 07	US-PATENT-CLASS-340-172.5			NASA-CASE-NPO-13121-1
		US-PATENT-CLASS-329-122			US-PATENT-CLASS-350-96R			US-PATENT-APPL-SN-294727
		US-PATENT-CLASS-329-124			US-PATENT-3,996,455			US-PATENT-CLASS-310-4R
		US-PATENT-CLASS-331-23			NASA-CASE-ARC-10807-1			US-PATENT-CLASS-313-311
		US-PATENT-CLASS-331-36C			US-PATENT-APPL-SN-513612	N77-19170*	c 24	US-PATENT-CLASS-346R
N77-14407*	c 35	US-PATENT-CLASS-332-30V	N77-17143*	c 20	US-PATENT-CLASS-416-104			US-PATENT-4,008,407
		US-PATENT-3,997,848			US-PATENT-CLASS-416-138			NASA-CASE-MSC-14683-1
		NASA-CASE-MFS-22560-1			US-PATENT-CLASS-416-141			US-PATENT-APPL-SN-612967
		US-PATENT-APPL-SN-589233			US-PATENT-3,999,886			US-PATENT-CLASS-358-44
		US-PATENT-CLASS-250-214A			NASA-CASE-LEW-12760-1	N77-19171*	c 24	US-PATENT-4,004,292
N77-14408*	c 35	US-PATENT-CLASS-330-14	N77-17161*	c 23	US-PATENT-APPL-SN-569925			NASA-CASE-LAR-11387-2
		US-PATENT-CLASS-330-28			US-PATENT-CLASS-60-226A			US-PATENT-APPL-SN-531647
		US-PATENT-CLASS-330-59			US-PATENT-CLASS-60-228			US-PATENT-APPL-SN-623156
		US-PATENT-3,996,462			US-PATENT-4,005,574			US-PATENT-CLASS-33-356
		NASA-CASE-NPO-13663-1			NASA-CASE-XLA-01349	N77-19171*	c 24	US-PATENT-CLASS-73-178R
N77-14409*	c 35	US-PATENT-APPL-SN-634205	N77-17351*	c 33	US-PATENT-APPL-SN-256493			US-PATENT-4,006,631
		US-PATENT-CLASS-250-289			US-PATENT-APPL-SN-54552			NASA-CASE-ARC-10979-1
		US-PATENT-CLASS-250-298			US-PATENT-CLASS-102-49.3			US-PATENT-APPL-SN-608483
		US-PATENT-3,996,464			US-PATENT-CLASS-264-3R			US-PATENT-CLASS-124-6
		NASA-CASE-LAR-11648-1			US-PATENT-CLASS-86-1R	N77-19353*	c 34	US-PATENT-CLASS-244-63
N77-14409*	c 35	US-PATENT-APPL-SN-645571	N77-17354*	c 33	US-PATENT-CLASS-86-20R			US-PATENT-3,989,206
		US-PATENT-CLASS-73-133R			US-PATENT-4,000,682			NASA-CASE-LEW-12550-1
		US-PATENT-3,995,476			NASA-CASE-MSC-14428-1			US-PATENT-APPL-SN-596905
		NASA-CASE-ARC-10448-3			US-PATENT-APPL-SN-450504			US-PATENT-CLASS-416-224
		US-PATENT-APPL-SN-221670			US-PATENT-CLASS-23-230B	N77-19385*	c 35	US-PATENT-CLASS-416-230B
N77-14409*	c 35	US-PATENT-APPL-SN-318848	N77-17426*	c 35	US-PATENT-CLASS-23-230M			US-PATENT-4,006,999
		US-PATENT-CLASS-250-396			US-PATENT-CLASS-23-230R			NASA-CASE-LEW-12619-1
		US-PATENT-3,996,468			US-PATENT-CLASS-23-231			US-PATENT-APPL-SN-462424
		NASA-CASE-NPO-13540-1			US-PATENT-CLASS-23-232C			US-PATENT-CLASS-204-16
		US-PATENT-APPL-SN-526450			US-PATENT-CLASS-23-232R	N77-19416*	c 36	US-PATENT-CLASS-204-40
N77-14411*	c 35	US-PATENT-CLASS-136-232	N77-17464*	c 37	US-PATENT-CLASS-23-254R			US-PATENT-CLASS-204-9
		US-PATENT-CLASS-136-233			US-PATENT-CLASS-55-197			US-PATENT-CLASS-29-527.2
		US-PATENT-3,996,070			US-PATENT-CLASS-55-67			US-PATENT-3,989,602
		NASA-CASE-NPO-13683-1			US-PATENT-CLASS-55-74	N77-19457*	c 37	NASA-CASE-ARC-10912-1
		US-PATENT-APPL-SN-599284			US-PATENT-CLASS-73-23.1			US-PATENT-APPL-SN-623187
N77-14477*	c 37	US-PATENT-CLASS-250-343	N77-17495*	c 38	US-PATENT-CLASS-73-61.1C			US-PATENT-CLASS-62-100
		US-PATENT-CLASS-356-201			US-PATENT-4,003,257			US-PATENT-CLASS-62-121
		US-PATENT-CLASS-356-204			NASA-CASE-MFS-23181-1			US-PATENT-CLASS-62-269
		US-PATENT-CLASS-356-97			US-PATENT-APPL-SN-566495			US-PATENT-CLASS-62-315
		US-PATENT-3,995,960			US-PATENT-CLASS-331-114	N77-19458*	c 37	US-PATENT-4,007,601
N77-14478*	c 37	NASA-CASE-FRC-10081-1	N77-17495*	c 38	US-PATENT-CLASS-331-177V			NASA-CASE-MSC-14653-1
		US-PATENT-APPL-SN-598504			US-PATENT-CLASS-332-18			US-PATENT-APPL-SN-521816
		US-PATENT-CLASS-280-432			US-PATENT-CLASS-332-30V			US-PATENT-CLASS-177-1
		US-PATENT-3,995,877			US-PATENT-4,003,004			US-PATENT-CLASS-177-208
		NASA-CASE-LAR-11658-1			NASA-CASE-LEW-11881-1			US-PATENT-CLASS-73-432R
N77-14479*	c 37	US-PATENT-APPL-SN-625759	N77-17495*	c 38	US-PATENT-APPL-SN-598968	N77-19458*	c 37	US-PATENT-3,988,933
		US-PATENT-CLASS-83-451			US-PATENT-CLASS-307-229			NASA-CASE-XNP-04167-3
		US-PATENT-CLASS-83-467R			US-PATENT-CLASS-307-230			US-PATENT-APPL-SN-170544
		US-PATENT-3,995,522			US-PATENT-CLASS-328-161			US-PATENT-APPL-SN-479357
		NASA-CASE-GSC-11960-1			US-PATENT-4,001,602			US-PATENT-CLASS-331-94.5D
N77-14479*	c 37	US-PATENT-APPL-SN-629456	N77-17495*	c 38	NASA-CASE-MFS-22671-2			US-PATENT-CLASS-331-94.5G
		US-PATENT-CLASS-242-187			US-PATENT-APPL-SN-419831			US-PATENT-CLASS-331-94.5PE
		US-PATENT-CLASS-242-193			US-PATENT-APPL-SN-561956			US-PATENT-4,007,430
		US-PATENT-CLASS-242-204			US-PATENT-CLASS-360-25	N77-19458*	c 37	NASA-CASE-MFS-15218-1
		US-PATENT-CLASS-242-210			US-PATENT-CLASS-360-31			US-PATENT-APPL-SN-387094
N77-14580*	c 44	US-PATENT-CLASS-242-57	N77-17464*	c 37	US-PATENT-4,003,084			US-PATENT-CLASS-197-188
		US-PATENT-3,995,789			NASA-CASE-GSC-11978-1			US-PATENT-CLASS-197-190
		NASA-CASE-LEW-11496-1			US-PATENT-APPL-SN-593142			US-PATENT-3,989,136
		US-PATENT-APPL-SN-645508			US-PATENT-CLASS-308-10	N77-19458*	c 37	NASA-CASE-GSC-11883-1
		US-PATENT-CLASS-136-89			US-PATENT-4,000,929			NASA-CASE-GSC-11974-1
N77-14580*	c 44	US-PATENT-CLASS-204-192	N77-17495*	c 38	NASA-CASE-GSC-11902-1			NASA-CASE-GSC-11975-1

		US-PATENT-APPL-SN-596787			US-PATENT-APPL-SN-841278			US-PATENT-CLASS-60-39.28R
		US-PATENT-CLASS-310-4A			US-PATENT-CLASS-313-175			US-PATENT-CLASS-60-39.66
		US-PATENT-CLASS-337-334			US-PATENT-CLASS-313-180			US-PATENT-4.020.632
		US-PATENT-CLASS-340-224			US-PATENT-CLASS-313-184	N77-23482*	c 37	NASA-CASE-LAR-11563-1
		US-PATENT-CLASS-60-527			US-PATENT-CLASS-315-108			US-PATENT-APPL-SN-672815
		US-PATENT-CLASS-75-122.7			US-PATENT-CLASS-315-110			US-PATENT-CLASS-29-DIG.35
		US-PATENT-CLASS-75-170			US-PATENT-3,621,330			US-PATENT-CLASS-29-447
N77-19571*	c 44	US-PATENT-4,010,455	N77-21392*	c 35	NASA-CASE-NPO-10711-1			US-PATENT-CLASS-403-273
		NASA-CASE-LEW-11549-1			US-PATENT-APPL-SN-844315			US-PATENT-CLASS-53-9
		US-PATENT-APPL-SN-510677			US-PATENT-CLASS-179-100.2C			US-PATENT-4,017,959
		US-PATENT-CLASS-136-89			US-PATENT-3,697,705	N77-23483*	c 37	NASA-CASE-MFS-23088-1
		US-PATENT-3,989,541	N77-21393*	c 35	NASA-CASE-NPO-10619-1			US-PATENT-APPL-SN-602617
N77-19760*	c 60	NASA-CASE-ARC-10899-1			US-PATENT-APPL-SN-757017			US-PATENT-CLASS-213-81
		US-PATENT-APPL-SN-576774			US-PATENT-CLASS-338-25			US-PATENT-CLASS-214-1CM
		US-PATENT-CLASS-178-69.5R			US-PATENT-3,555,483			US-PATENT-CLASS-244-161
		US-PATENT-CLASS-179-15BS	N77-21844*	c 54	NASA-CASE-MFS-23074-1			US-PATENT-4,018,409
		US-PATENT-CLASS-340-172.5			US-PATENT-APPL-SN-623188	N77-24328*	c 32	NASA-CASE-ARC-10984
		US-PATENT-3,990,049			US-PATENT-CLASS-188-291			US-PATENT-APPL-SN-690815
N77-20162*	c 20	NASA-CASE-LEW-12048-1			US-PATENT-CLASS-254-158			US-PATENT-CLASS-358-133
		US-PATENT-APPL-SN-665033			US-PATENT-4,018,423			US-PATENT-CLASS-358-138
		US-PATENT-CLASS-313-230	N77-21941*	c 74	NASA-CASE-NPO-11429-1			US-PATENT-4,025,950
		US-PATENT-CLASS-313-231.3			US-PATENT-APPL-SN-95189	N77-24331*	c 32	NASA-CASE-MSC-14840-1
		US-PATENT-CLASS-313-360			US-PATENT-CLASS-240-41.35R			US-PATENT-APPL-SN-692414
		US-PATENT-CLASS-315-111.3			US-PATENT-CLASS-240-41R			US-PATENT-CLASS-178-88
		US-PATENT-CLASS-315-111.6			US-PATENT-CLASS-240-46.13			US-PATENT-CLASS-325-346
		US-PATENT-CLASS-60-202			US-PATENT-CLASS-356-236			US-PATENT-CLASS-329-104
N77-20201*	c 26	US-PATENT-4,011,719			US-PATENT-3,711,701			US-PATENT-CLASS-329-122
		NASA-CASE-LEW-12245-1	N77-22386*	c 33	NASA-CASE-NPO-10870-1			US-PATENT-4,027,265
		US-PATENT-APPL-SN-584094			NASA-CASE-NPO-11191-1	N77-24375*	c 33	NASA-CASE-MSC-12709-1
		US-PATENT-CLASS-148-12.7N			NASA-CASE-NPO-11403-1			US-PATENT-APPL-SN-630583
		US-PATENT-CLASS-148-162			US-PATENT-APPL-SN-108810			US-PATENT-CLASS-307-225R
		US-PATENT-CLASS-148-2			US-PATENT-CLASS-313-146			US-PATENT-CLASS-328-38
		US-PATENT-CLASS-148-20.3			US-PATENT-CLASS-313-182			US-PATENT-CLASS-328-39
		US-PATENT-CLASS-148-32.5			US-PATENT-CLASS-313-60			US-PATENT-CLASS-328-4-8
		US-PATENT-CLASS-75-170			US-PATENT-3,736,453			US-PATENT-CLASS-328-63
N77-20289*	c 32	US-PATENT-4,012,237	N77-22449*	c 35	NASA-CASE-LAR-11825-1			US-PATENT-4,025,866
		NASA-CASE-NPO-13753-1			US-PATENT-APPL-SN-632112	N77-24423*	c 34	NASA-CASE-LAR-12045-1
		US-PATENT-APPL-SN-658449			US-PATENT-CLASS-73-88R			US-PATENT-APPL-SN-682416
		US-PATENT-CLASS-325-4			US-PATENT-4,018,085			US-PATENT-CLASS-259/4R
		US-PATENT-CLASS-343-100ST	N77-22450*	c 35	NASA-CASE-MFS-23281-1			US-PATENT-CLASS-261-DIG.75
		US-PATENT-CLASS-343-6.8R			US-PATENT-APPL-SN-657995			US-PATENT-CLASS-261-123
		US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-73-15.6			US-PATENT-4,026,527
N77-20399*	c 35	US-PATENT-4,012,696			US-PATENT-CLASS-73-95	N77-24454*	c 35	NASA-CASE-ARC-10900-1
		NASA-CASE-ARC-10716-1			US-PATENT-4,018,080			US-PATENT-APPL-SN-630579
		US-PATENT-APPL-SN-403695	N77-22479*	c 37	NASA-CASE-NPO-10316-1			US-PATENT-CLASS-338-229
		US-PATENT-CLASS-235-150.2			US-PATENT-APPL-SN-703107			US-PATENT-CLASS-338-28
		US-PATENT-CLASS-235-150.25			US-PATENT-CLASS-60-53			US-PATENT-4,025,891
		US-PATENT-CLASS-244-165	N77-22480*	c 37	US-PATENT-3,478,514	N77-24455*	c 35	NASA-CASE-GSC-12077-1
		US-PATENT-CLASS-244-171			NASA-CASE-NPO-13058-1			US-PATENT-APPL-SN-635519
		US-PATENT-CLASS-244-3.21			NASA-CASE-NPO-13096-1			US-PATENT-CLASS-65-108
N77-20400*	c 35	US-PATENT-4,012,018			US-PATENT-APPL-SN-403154			US-PATENT-CLASS-65-59A
		NASA-CASE-ARC-10911-1			US-PATENT-CLASS-214-16.1CB			US-PATENT-CLASS-6554
		US-PATENT-APPL-SN-610802			US-PATENT-3,896,955			US-PATENT-CLASS-6564
		US-PATENT-CLASS-338-28	N77-22482*	c 37	NASA-CASE-MSC-19536-1			US-PATENT-4,025,327
		US-PATENT-CLASS-73-204			US-PATENT-APPL-SN-658450	N77-25499*	c 36	NASA-CASE-GSC-11571-1
		US-PATENT-4,011,756			US-PATENT-CLASS-74-96			US-PATENT-APPL-SN-646704
N77-20401*	c 35	NASA-CASE-MFS-23267-1			US-PATENT-4,018,092			US-PATENT-CLASS-331-94.5S
		US-PATENT-APPL-SN-653422	N77-22606*	c 44	NASA-CASE-LEW-12364-1			US-PATENT-4,025,875
		US-PATENT-CLASS-126-270			US-PATENT-APPL-SN-707124	N77-25501*	c 36	NASA-CASE-ARC-10970-1
		US-PATENT-CLASS-126-271			US-PATENT-CLASS-253-317			US-PATENT-APPL-SN-691046
		US-PATENT-CLASS-250-203R			US-PATENT-CLASS-429-105			US-PATENT-CLASS-250-574
N77-20882*	c 74	US-PATENT-4,011,854			US-PATENT-CLASS-429-107			US-PATENT-CLASS-350-100
		NASA-CASE-LAR-11782-1			US-PATENT-CLASS-429-190			US-PATENT-CLASS-350-102
		US-PATENT-APPL-SN-608482			US-PATENT-4,018,971			US-PATENT-CLASS-356-28
		US-PATENT-CLASS-350-145	N77-22607*	c 44	NASA-CASE-LAR-11361-1			US-PATENT-4,026,655
		US-PATENT-CLASS-350-174			US-PATENT-APPL-SN-669928	N77-25502*	c 36	NASA-CASE-NPO-13147-1
		US-PATENT-4,012,123			US-PATENT-CLASS-23-277R			US-PATENT-APPL-SN-317310
N77-21267*	c 32	NASA-CASE-LAR-11390-1			US-PATENT-CLASS-23-281			US-PATENT-CLASS-330-43
		US-PATENT-APPL-SN-662176			US-PATENT-CLASS-423-648R			US-PATENT-CLASS-331-94.5D
		US-PATENT-CLASS-340-5H			US-PATENT-CLASS-55-158			US-PATENT-CLASS-331-94.5P
		US-PATENT-CLASS-343-18B			US-PATENT-4,019,868			US-PATENT-4,027,273
		US-PATENT-CLASS-343-5CM	N77-22794*	c 51	NASA-CASE-GSC-12039-1			NASA-CASE-LAR-10773-3
		US-PATENT-CLASS-343-5MM			US-PATENT-APPL-SN-572991	N77-25769*	c 51	US-PATENT-APPL-SN-125235
N77-21314*	c 33	US-PATENT-4,019,179			US-PATENT-CLASS-195-103.5K			US-PATENT-APPL-SN-314656
		NASA-CASE-NPO-10189-1			US-PATENT-CLASS-195-103.5R			US-PATENT-APPL-SN-623238
		NASA-CASE-NPO-10781-1			US-PATENT-4,014,745			US-PATENT-CLASS-195-1.8
		US-PATENT-APPL-SN-744522	N77-22950*	c 74	NASA-CASE-ARC-10976-1			US-PATENT-4,018,649
		US-PATENT-CLASS-307-232			US-PATENT-APPL-SN-665032	N77-25772*	c 52	NASA-CASE-KSC-11030-1
		US-PATENT-CLASS-307-238			US-PATENT-CLASS-356-171			US-PATENT-APPL-SN-709849
		US-PATENT-CLASS-307-280			US-PATENT-4,018,533			US-PATENT-CLASS-128-1R
		US-PATENT-CLASS-329-119	N77-22951*	c 74	NASA-CASE-NPO-13722-1			US-PATENT-CLASS-3-1
		US-PATENT-CLASS-329-205			US-PATENT-APPL-SN-616472			US-PATENT-CLASS-339,12R
		US-PATENT-CLASS-332-16			US-PATENT-CLASS-250-203R			US-PATENT-4,025,964
		US-PATENT-CLASS-332-30			US-PATENT-CLASS-250-211K	N77-26385*	c 33	NASA-CASE-LEW-11978-1
		US-PATENT-CLASS-332-52			US-PATENT-CLASS-356-141			US-PATENT-APPL-SN-708658
N77-21315*	c 33	US-PATENT-3,582,828			US-PATENT-CLASS-356-152			US-PATENT-CLASS-204-32A
		NASA-CASE-NPO-11510-1			US-PATENT-CLASS-356-172			US-PATENT-CLASS-29-597
		US-PATENT-APPL-SN-173178			US-PATENT-4,018,532			US-PATENT-CLASS-29-622
		US-PATENT-APPL-SN-385059	N77-23106*	c 07	NASA-CASE-LEW-12830-1			US-PATENT-CLASS-29-628
		US-PATENT-CLASS-313-161			US-PATENT-APPL-SN-596641			US-PATENT-CLASS-29-630E
		US-PATENT-CLASS-313-184			US-PATENT-APPL-SN-655149			US-PATENT-4,023,266
		US-PATENT-CLASS-313-224			US-PATENT-CLASS-123-122E	N77-26386*	c 33	NASA-CASE-GSC-11824-1
		US-PATENT-CLASS-313-32			US-PATENT-CLASS-123-41.33			US-PATENT-APPL-SN-583486
		US-PATENT-CLASS-315-344			US-PATENT-CLASS-137-101			US-PATENT-CLASS-318-138
N77-21316*	c 33	US-PATENT-3,881,132			US-PATENT-CLASS-415-180			US-PATENT-CLASS-318-227
		NASA-CASE-NPO-10790-1			US-PATENT-CLASS-60-39.03			US-PATENT-CLASS-318-225

N77-26387*	c 33	US-PATENT-4.027.212	N77-28225*	c 24	US-PATENT-4.033.119	N77-30309*	c 32	NASA-CASE-GSC-11898-1
		NASA-CASE-LAR-11389-1			NASA-CASE-MSC-12631-1			US-PATENT-APPL-SN-566494
N77-26477*	c 36	US-PATENT-APPL-SN-229143	N77-28265*	c 26	US-PATENT-APPL-SN-568541	N77-30365*	c 33	US-PATENT-CLASS-179-1SA
		US-PATENT-APPL-SN-340862			US-PATENT-CLASS-156-229			US-PATENT-CLASS-179-1SP
N77-26919*	c 71	US-PATENT-CLASS-310-111	N77-28346*	c 32	US-PATENT-CLASS-244-123	N77-30436*	c 35	US-PATENT-4.039.754
		US-PATENT-CLASS-310-168			US-PATENT-CLASS-428-141			NASA-CASE-NPO-13812-1
N77-26942*	c 74	US-PATENT-CLASS-322-96	N77-28385*	c 33	US-PATENT-CLASS-428-161	N77-30749*	c 54	US-PATENT-APPL-SN-694855
		US-PATENT-3.849.720			US-PATENT-CLASS-428-425			US-PATENT-CLASS-307-64
N77-27116*	c 07	NASA-CASE-NPO-13550-1	N77-28486*	c 37	US-PATENT-CLASS-428-457	N77-31308*	c 27	US-PATENT-CLASS-363-53
		US-PATENT-APPL-SN-483301			US-PATENT-CLASS-428-458			US-PATENT-CLASS-363-70
N77-27131*	c 09	US-PATENT-CLASS-250-281	N77-28487*	c 37	US-PATENT-4.032.089	N77-31350*	c 32	US-PATENT-4.039.925
		US-PATENT-CLASS-250-282			NASA-CASE-LEW-11573-1			NASA-CASE-MFS-19287-1
N77-27188*	c 24	US-PATENT-CLASS-250-283	N77-28511*	c 39	US-PATENT-APPL-SN-625733	N77-31404*	c 33	US-PATENT-APPL-SN-641802
		US-PATENT-CLASS-250-423P			US-PATENT-CLASS-228-190			US-PATENT-CLASS-137-207
N77-27345*	c 34	US-PATENT-4.031.389	N77-28716*	c 52	US-PATENT-CLASS-228-194	N77-31465*	c 35	US-PATENT-CLASS-137-209
		NASA-CASE-NPO-13673-1			US-PATENT-CLASS-228-232			US-PATENT-CLASS-60-259
N77-27366*	c 35	US-PATENT-APPL-SN-613004	N77-28717*	c 52	US-PATENT-4.033.504	N77-31497*	c 37	US-PATENT-CLASS-62-55
		US-PATENT-CLASS-330-5.5			NASA-CASE-GSC-12053-1			US-PATENT-4.039.000
N77-27367*	c 35	US-PATENT-CLASS-331-107A	N77-28932*	c 74	US-PATENT-APPL-SN-667930	N77-31601*	c 44	NASA-CASE-MFS-23175-1
		US-PATENT-CLASS-333-72			US-PATENT-CLASS-250-199			US-PATENT-APPL-SN-667928
N77-27400*	c 37	US-PATENT-4.025.876	N77-28933*	c 74	US-PATENT-CLASS-250-238	N77-32148*	c 07	US-PATENT-CLASS-324-163
		NASA-CASE-GSC-12058-1			US-PATENT-CLASS-250-238			US-PATENT-CLASS-324-165
N77-27677*	c 51	US-PATENT-APPL-SN-680938	N77-29260*	c 26	US-PATENT-4.033.882	N77-32255*	c 25	US-PATENT-CLASS-324-174
		US-PATENT-CLASS-250-199			NASA-CASE-LEW-12444-1			US-PATENT-CLASS-340-271
N77-28118*	c 07	US-PATENT-4.025.783	N77-30237*	c 27	US-PATENT-APPL-SN-583485	N77-32279*	c 26	US-PATENT-CLASS-340-347P
		NASA-CASE-LEW-12608-1			US-PATENT-CLASS-123-148CB			US-PATENT-CLASS-340-347SY
		US-PATENT-APPL-SN-680007			US-PATENT-CLASS-123-148E			US-PATENT-4.039.946
		US-PATENT-CLASS-416-220R			US-PATENT-CLASS-315-176			NASA-CASE-KSC-11004-1
		US-PATENT-CLASS-416-221			US-PATENT-4.033.316			US-PATENT-APPL-SN-710032
		US-PATENT-4.033.705			NASA-CASE-LEW-11158-1			US-PATENT-CLASS-3-2
		NASA-CASE-LAR-11883-1			US-PATENT-APPL-SN-663008			US-PATENT-CLASS-3-21
		US-PATENT-APPL-SN-662175			US-PATENT-CLASS-308-5R			US-PATENT-4.038.705
		US-PATENT-CLASS-73-15R			US-PATENT-CLASS-308-73			NASA-CASE-NPO-11609-2
		US-PATENT-4.027.524			US-PATENT-CLASS-308-9			US-PATENT-APPL-SN-228229
		NASA-CASE-MFS-22926-1			US-PATENT-4.035.037			US-PATENT-APPL-SN-674700
		US-PATENT-APPL-SN-557565			NASA-CASE-MSC-14905-1			US-PATENT-CLASS-210-DIG.27
		US-PATENT-CLASS-164-60			US-PATENT-APPL-SN-708795			US-PATENT-CLASS-210-40
		US-PATENT-CLASS-75-135			US-PATENT-CLASS-128-DIG.12			US-PATENT-CLASS-260-2.5A
		US-PATENT-CLASS-75-139			US-PATENT-CLASS-128-214F			US-PATENT-CLASS-260-2.5AM
		US-PATENT-CLASS-75-65R			US-PATENT-CLASS-222-61			US-PATENT-CLASS-260-2.5AY
		US-PATENT-4.029.500			US-PATENT-CLASS-222-95			US-PATENT-CLASS-260-77.5AP
		NASA-CASE-LEW-12118-1			US-PATENT-4.033.479			US-PATENT-4.039.489
		US-PATENT-APPL-SN-616332			NASA-CASE-MFS-23299-1			NASA-CASE-GSC-12075-1
		US-PATENT-CLASS-428-301			US-PATENT-APPL-SN-700673			US-PATENT-APPL-SN-562499
		US-PATENT-CLASS-428-328			US-PATENT-CLASS-73-67.7			US-PATENT-CLASS-343-17.7
		US-PATENT-CLASS-428-368			US-PATENT-CLASS-73-88R			US-PATENT-4.042.926
		US-PATENT-CLASS-428-418			US-PATENT-4.033.182			NASA-CASE-ARC-10897-1
		US-PATENT-CLASS-428-457			NASA-CASE-LEW-12258-1			US-PATENT-APPL-SN-625781
		US-PATENT-CLASS-428-902			US-PATENT-APPL-SN-676433			US-PATENT-CLASS-323-93
		US-PATENT-CLASS-428-911			US-PATENT-CLASS-128-1R			US-PATENT-CLASS-324-60
		US-PATENT-4.029.838			US-PATENT-CLASS-128-303R			US-PATENT-CLASS-340-200
		NASA-CASE-ARC-10974-1			US-PATENT-4.033.349			US-PATENT-CLASS-340-347SH
		US-PATENT-APPL-SN-667010			NASA-CASE-MSC-14623-1			US-PATENT-4.040.041
		US-PATENT-CLASS-73-189			US-PATENT-APPL-SN-637269			NASA-CASE-MFS-23118-1
		US-PATENT-CLASS-73-228			US-PATENT-CLASS-128-DIG.4			US-PATENT-APPL-SN-691256
		US-PATENT-4.028.939			US-PATENT-CLASS-128-2.1E			US-PATENT-CLASS-356-212
		NASA-CASE-GSC-12059-1			US-PATENT-CLASS-128-410			US-PATENT-4.040.750
		US-PATENT-APPL-SN-680957			US-PATENT-4.033.334			NASA-CASE-NPO-13671-1
		US-PATENT-CLASS-331-94.5D			NASA-CASE-GSC-11989-1			US-PATENT-APPL-SN-564622
		US-PATENT-CLASS-331-94.5T			US-PATENT-APPL-SN-645500			US-PATENT-CLASS-123-DIG.8
		US-PATENT-CLASS-350-253			US-PATENT-CLASS-350-162SF			US-PATENT-CLASS-123-119A
		US-PATENT-4.030.047			US-PATENT-CLASS-350-202			US-PATENT-CLASS-123-122AB
		NASA-CASE-NPO-11103-1			US-PATENT-CLASS-350-299			US-PATENT-CLASS-123-3
		US-PATENT-APPL-SN-3654			US-PATENT-4.035.062			US-PATENT-CLASS-123-37
		US-PATENT-CLASS-73-84			NASA-CASE-NPO-13707-1			US-PATENT-CLASS-123-59E
		US-PATENT-3.623.359			US-PATENT-APPL-SN-617202			US-PATENT-4.041.910
		NASA-CASE-MSC-12327-1			US-PATENT-CLASS-350-288			NASA-CASE-LEW-12587-1
		US-PATENT-APPL-SN-19572			US-PATENT-CLASS-350-310			US-PATENT-APPL-SN-717319
		US-PATENT-CLASS-73-362AR			US-PATENT-CLASS-350-320			US-PATENT-CLASS-136-89AC
		US-PATENT-3.613.454			US-PATENT-4.035.065			US-PATENT-CLASS-136-89P
		NASA-CASE-GSC-11063-1			NASA-CASE-MFS-23405-1			US-PATENT-CLASS-52-173R
		US-PATENT-APPL-SN-41431			US-PATENT-APPL-SN-718267			US-PATENT-CLASS-52-51
		US-PATENT-CLASS-318-267			US-PATENT-CLASS-228-124			US-PATENT-4.040.867
		US-PATENT-CLASS-318-468			US-PATENT-CLASS-228-263			NASA-CASE-LEW-12312-1
		US-PATENT-CLASS-318-470			US-PATENT-4.033.503			US-PATENT-APPL-SN-654787
		US-PATENT-CLASS-318-675			NASA-CASE-NPO-13620-1			US-PATENT-CLASS-416-135
		US-PATENT-3.628.113			US-PATENT-APPL-SN-666992			US-PATENT-CLASS-416-190
		NASA-CASE-LAR-11649-1			US-PATENT-CLASS-210-24			US-PATENT-CLASS-416-193A
		US-PATENT-APPL-SN-626942			US-PATENT-CLASS-536-105			US-PATENT-CLASS-416-241A
		US-PATENT-CLASS-118-313			US-PATENT-CLASS-536-85			US-PATENT-4.045.149
		US-PATENT-CLASS-118-6			US-PATENT-CLASS-536-56			NASA-CASE-NPO-13566-1
		US-PATENT-CLASS-118-7			US-PATENT-CLASS-536-58			US-PATENT-APPL-SN-653316
		US-PATENT-CLASS-118-9			US-PATENT-CLASS-536-84			US-PATENT-CLASS-204-DIG.11
		US-PATENT-CLASS-23-253A			US-PATENT-4.041.233			US-PATENT-CLASS-204-157.1R
		US-PATENT-CLASS-23-259			NASA-CASE-MFS-23345-1			US-PATENT-CLASS-204-158R
		US-PATENT-CLASS-23-292			US-PATENT-APPL-SN-696989			US-PATENT-CLASS-204-162R
		US-PATENT-CLASS-424-3			US-PATENT-CLASS-106-292			US-PATENT-CLASS-250-527
		US-PATENT-CLASS-427-4			US-PATENT-CLASS-106-296			US-PATENT-4.045.359
		US-PATENT-CLASS-8-3			US-PATENT-CLASS-106-299			NASA-CASE-LEW-12906-1
		US-PATENT-CLASS-8-94.11			US-PATENT-4.039.347			US-PATENT-APPL-SN-691936
		US-PATENT-4.029.470			NASA-CASE-GSC-12017-1			US-PATENT-CLASS-148-32
		NASA-CASE-LAR-11310-1			US-PATENT-APPL-SN-645510			US-PATENT-CLASS-75-170
		US-PATENT-APPL-SN-394898			US-PATENT-CLASS-325-30			US-PATENT-4.045.255
		US-PATENT-CLASS-415-145			US-PATENT-CLASS-325-42			NASA-CASE-LEW-12270-1
		US-PATENT-CLASS-60-226R			US-PATENT-CLASS-325-473			US-PATENT-APPL-SN-645507
		US-PATENT-CLASS-60-263			US-PATENT-CLASS-325-65			US-PATENT-CLASS-148-32.5
					US-PATENT-4.041.391			

		US-PATENT-CLASS-75-170			US-PATENT-CLASS-340-347AD			US-PATENT-CLASS-3-1.2
		US-PATENT-4,046,560			US-PATENT-CLASS-350-96R			US-PATENT-CLASS-3-15
N77-32308*	c 27	NASA-CASE-GSC-12110-1	N77-32919*	c 76	NASA-CASE-MFS-23001-1	N78-10709*	c 60	US-PATENT-CLASS-3-29
		US-PATENT-APPL-SN-682435			US-PATENT-APPL-SN-610801			US-PATENT-4,051,558
		US-PATENT-CLASS-156-645			US-PATENT-CLASS-156-DIG.62			NASA-CASE-GSC-11839-2
		US-PATENT-CLASS-156-663			US-PATENT-CLASS-156-601			US-PATENT-APPL-SN-468614
		US-PATENT-4,046,619			US-PATENT-CLASS-156-619			US-PATENT-APPL-SN-657996
N77-32342*	c 32	NASA-CASE-NPO-13587-1			US-PATENT-CLASS-156-620			US-PATENT-CLASS-340-173LM
		US-PATENT-APPL-SN-589119			US-PATENT-CLASS-156-620			US-PATENT-CLASS-350-96R
		US-PATENT-CLASS-343-10			US-PATENT-4,046,617			US-PATENT-CLASS-356-169
		US-PATENT-CLASS-343-100CL	N78-10214*	c 24	NASA-CASE-LAR-11898-1			US-PATENT-4,052,705
		US-PATENT-CLASS-343-5CM			US-PATENT-APPL-SN-723264	N78-10837*	c 71	NASA-CASE-NPO-13802-1
		US-PATENT-CLASS-343-5DP			US-PATENT-CLASS-428-116			US-PATENT-APPL-SN-658133
		US-PATENT-4,045,795			US-PATENT-CLASS-428-138			US-PATENT-CLASS-264-23
N77-32413*	c 34	NASA-CASE-GSC-11998-1			US-PATENT-CLASS-428-73			US-PATENT-CLASS-264-345
		US-PATENT-APPL-SN-579989			US-PATENT-CLASS-428-902			US-PATENT-CLASS-65-DIG.4
		US-PATENT-CLASS-165-105			US-PATENT-4,052,523			US-PATENT-CLASS-65-DIG.7
		US-PATENT-4,046,190	N78-10224*	c 25	NASA-CASE-LEW-12137-1			US-PATENT-CLASS-65-102
N77-32454*	c 35	NASA-CASE-LEW-12050-1			US-PATENT-APPL-SN-672210			US-PATENT-CLASS-65-2
		US-PATENT-APPL-SN-629457			US-PATENT-CLASS-165-105			US-PATENT-CLASS-65-32
		US-PATENT-CLASS-136-202			US-PATENT-CLASS-431-158			US-PATENT-CLASS-65-4B
		US-PATENT-CLASS-136-236R			US-PATENT-CLASS-431-352			US-PATENT-CLASS-65-87
		US-PATENT-CLASS-136-240			US-PATENT-CLASS-60-39.51R			US-PATENT-CLASS-73-505
		US-PATENT-4,045,247			US-PATENT-4,052,144			US-PATENT-4,052,181
N77-32455*	c 35	NASA-CASE-NPO-13792-1	N78-10225*	c 25	NASA-CASE-MSC-14831-1	N78-12390*	c 35	NASA-CASE-MSC-14773-1
		US-PATENT-APPL-SN-677351			US-PATENT-APPL-SN-685027			US-PATENT-APPL-SN-612966
		US-PATENT-CLASS-324-57H			US-PATENT-CLASS-204-292			US-PATENT-CLASS-137-197
		US-PATENT-CLASS-324-59			US-PATENT-CLASS-210-63R			US-PATENT-CLASS-210-222
		US-PATENT-4,045,728			US-PATENT-CLASS-210-71			US-PATENT-CLASS-55-100
N77-32456*	c 35	NASA-CASE-GSC-12143-1			US-PATENT-CLASS-252-472			US-PATENT-CLASS-55-26-9
		US-PATENT-APPL-SN-743249			US-PATENT-CLASS-427-229			US-PATENT-CLASS-55-3
		US-PATENT-CLASS-250-288			US-PATENT-4,052,302			US-PATENT-CLASS-62-50
		US-PATENT-CLASS-73-421.5R	N78-10375*	c 33	NASA-CASE-MSC-14916-1			US-PATENT-CLASS-62-514R
		US-PATENT-4,046,012			US-PATENT-APPL-SN-739914			US-PATENT-4,027,494
N77-32478*	c 36	NASA-CASE-LEW-12164-1			US-PATENT-CLASS-179-107R	N78-13320*	c 33	NASA-CASE-MFS-23274-1
		US-PATENT-APPL-SN-511334			US-PATENT-CLASS-179-175.1A			US-PATENT-APPL-SN-714158
		US-PATENT-CLASS-350-162SF			US-PATENT-CLASS-330-2			US-PATENT-CLASS-307-306
		US-PATENT-4,043,674			US-PATENT-4,049,930			US-PATENT-CLASS-338-32S
N77-32499*	c 37	NASA-CASE-MSC-19535-1	N78-10376*	c 33	NASA-CASE-MFS-23280-1			US-PATENT-CLASS-357-4
		US-PATENT-APPL-SN-641784			US-PATENT-APPL-SN-706425			US-PATENT-CLASS-357-5
		US-PATENT-CLASS-292-110			US-PATENT-CLASS-318-200			US-PATENT-CLASS-357-73
		US-PATENT-4,045,063			US-PATENT-CLASS-318-227			US-PATENT-4,055,847
N77-32500*	c 37	NASA-CASE-LEW-12527-1			US-PATENT-CLASS-318-230	N78-13400*	c 35	NASA-CASE-ARC-10639-1
		US-PATENT-APPL-SN-595747			US-PATENT-4,052,648			US-PATENT-APPL-SN-643043
		US-PATENT-CLASS-290-52	N78-10377*	c 33	NASA-CASE-NPO-13872-1			US-PATENT-CLASS-250-336
		US-PATENT-CLASS-308-195			US-PATENT-APPL-SN-742034			US-PATENT-CLASS-250-343
		US-PATENT-CLASS-308-72			US-PATENT-CLASS-363-57			US-PATENT-CLASS-250-351
		US-PATENT-4,046,434			US-PATENT-CLASS-363-89			US-PATENT-4,055,764
N77-32501*	c 37	NASA-CASE-LEW-12477-1			US-PATENT-4,052,659	N78-13436*	c 37	NASA-CASE-LEW-12083-1
		US-PATENT-APPL-SN-595745	N78-10428*	c 35	NASA-CASE-MSC-14757-1			US-PATENT-APPL-SN-659882
		US-PATENT-CLASS-290-52			US-PATENT-APPL-SN-625734			US-PATENT-CLASS-250-499
		US-PATENT-CLASS-308-195			US-PATENT-CLASS-141-197			US-PATENT-CLASS-313-61S
		US-PATENT-4,046,435			US-PATENT-CLASS-141-4			US-PATENT-CLASS-427-124
N77-32580*	c 44	NASA-CASE-NPO-13675-1			US-PATENT-CLASS-417-225			US-PATENT-CLASS-427-126
		US-PATENT-APPL-SN-658132			US-PATENT-CLASS-60-560			US-PATENT-CLASS-427-248E
		US-PATENT-CLASS-204-157.1R			US-PATENT-CLASS-60-574			US-PATENT-CLASS-427-250
		US-PATENT-CLASS-250-527			US-PATENT-4,051,877			US-PATENT-CLASS-427-255
		US-PATENT-4,045,315	N78-10429*	c 35	NASA-CASE-NPO-13772-1			US-PATENT-4,055,686
N77-32581*	c 44	NASA-CASE-NPO-13510-1			US-PATENT-APPL-SN-675351	N78-13526*	c 44	NASA-CASE-NPO-13482-1
		US-PATENT-APPL-SN-536786			US-PATENT-CLASS-250-310			US-PATENT-APPL-SN-495021
		US-PATENT-CLASS-126-263			US-PATENT-CLASS-250-398			US-PATENT-CLASS-136-89SJ
		US-PATENT-CLASS-165-107			US-PATENT-4,052,614			US-PATENT-CLASS-357-15
		US-PATENT-CLASS-165-2	N78-10467*	c 37	NASA-CASE-LEW-12321-1			US-PATENT-CLASS-357-16
		US-PATENT-CLASS-62-4			US-PATENT-APPL-SN-596641			US-PATENT-CLASS-357-30
		US-PATENT-4,044,821			US-PATENT-CLASS-123-122E			US-PATENT-4,053,918
N77-32582*	c 44	NASA-CASE-NPO-13810-1			US-PATENT-CLASS-123-41.33	N78-13874*	c 74	NASA-CASE-GSC-12088-1
		US-PATENT-APPL-SN-681096			US-PATENT-CLASS-137-104			US-PATENT-APPL-SN-648700
		US-PATENT-CLASS-126-270			US-PATENT-CLASS-415-180			US-PATENT-CLASS-356-103
		US-PATENT-CLASS-126-271			US-PATENT-CLASS-60-39.28R			US-PATENT-CLASS-356-104
		US-PATENT-CLASS-52-117			US-PATENT-CLASS-60-39.66			US-PATENT-4,053,229
		US-PATENT-CLASS-60-641			US-PATENT-4,041,697	N78-14096*	c 24	NASA-CASE-ARC-11042-1
		US-PATENT-4,044,753	N78-10468*	c 37	NASA-CASE-LEW-12313-1			US-PATENT-APPL-SN-734902
N77-32583*	c 44	NASA-CASE-NPO-13736-1			US-PATENT-APPL-SN-581751			US-PATENT-CLASS-252-8.1
		US-PATENT-APPL-SN-681017			US-PATENT-CLASS-416-135			US-PATENT-CLASS-60-836
		US-PATENT-CLASS-350-295			US-PATENT-CLASS-416-141			US-PATENT-4,061,579
		US-PATENT-CLASS-350-320			US-PATENT-CLASS-416-220R	N78-14104*	c 25	NASA-CASE-ARC-10991-1
		US-PATENT-CLASS-427-130			US-PATENT-CLASS-416-248			US-PATENT-APPL-SN-744574
		US-PATENT-CLASS-427-47			US-PATENT-4,047,840			US-PATENT-CLASS-204-180G
		US-PATENT-CLASS-52-2	N78-10493*	c 39	NASA-CASE-NPO-13731-1			US-PATENT-CLASS-204-299R
		US-PATENT-4,046,462			US-PATENT-APPL-SN-653682			US-PATENT-4,061,561
N77-32721*	c 54	NASA-CASE-ARC-10756-1			US-PATENT-CLASS-73-15.6	N78-14164*	c 27	NASA-CASE-NPO-13867-1
		US-PATENT-APPL-SN-436313			US-PATENT-CLASS-73-91			US-PATENT-APPL-SN-692284
		US-PATENT-CLASS-2-2.1A			US-PATENT-4,030,348			US-PATENT-CLASS-260-DIG.15
		US-PATENT-CLASS-214-1BC	N78-10529*	c 43	NASA-CASE-GSC-11976-1			US-PATENT-CLASS-427-164
		US-PATENT-CLASS-214-1CM			US-PATENT-APPL-SN-677352			US-PATENT-CLASS-428-411
		US-PATENT-4,046,262			US-PATENT-CLASS-324-58.5B			US-PATENT-CLASS-428-522
N77-32722*	c 54	NASA-CASE-MSC-14771-1			US-PATENT-4,052,666			US-PATENT-CLASS-428-922
		US-PATENT-APPL-SN-688854	N78-10554*	c 44	NASA-CASE-NPO-13734-1			US-PATENT-CLASS-96-87A
		US-PATENT-CLASS-165-166			US-PATENT-APPL-SN-680939			US-PATENT-4,061,834
		US-PATENT-CLASS-55-179			US-PATENT-CLASS-126-271	N78-14364*	c 35	NASA-CASE-ARC-11046-1
		US-PATENT-CLASS-55-269			US-PATENT-CLASS-237-1A			US-PATENT-APPL-SN-712419
		US-PATENT-4,046,529			US-PATENT-CLASS-350-293			US-PATENT-CLASS-340-27SS
N77-32731*	c 60	NASA-CASE-GSC-11839-3			US-PATENT-CLASS-350-299			US-PATENT-CLASS-73-180
		US-PATENT-APPL-SN-468614			US-PATENT-4,051,834			US-PATENT-4,061,029
		US-PATENT-APPL-SN-657997	N78-10686*	c 52	NASA-CASE-ARC-10916-1	N78-14380*	c 36	NASA-CASE-MFS-19259-1
		US-PATENT-CLASS-250-199			US-PATENT-APPL-SN-701448			US-PATENT-APPL-SN-732630

				US-PATENT-CLASS-250-571				US-PATENT-CLASS-428-428				US-PATENT-APPL-SN-759220
				US-PATENT-CLASS-356-159				US-PATENT-4,062,996				US-PATENT-CLASS-260-67
				US-PATENT-CLASS-356-160				NASA-CASE-MFS-22409-2				US-PATENT-3,538,053
				US-PATENT-CLASS-356-199		N78-15880*	c 74	US-PATENT-APPL-SN-445398		N78-17215*	c 27	NASA-CASE-NPO-13764-1
				US-PATENT-4,061,427				US-PATENT-APPL-SN-636193				US-PATENT-APPL-SN-674194
N78-14452*	c 43			NASA-CASE-LEW-12217-1				US-PATENT-CLASS-250-272				US-PATENT-CLASS-128-92C
				US-PATENT-APPL-SN-763753				US-PATENT-CLASS-250-320				US-PATENT-CLASS-128-92G
				US-PATENT-CLASS-166-248				US-PATENT-4,063,088				US-PATENT-CLASS-260-42.17
				US-PATENT-CLASS-166-259		N78-16369*	c 37	NASA-CASE-NPO-13619-1				US-PATENT-CLASS-3-1.9
				US-PATENT-4,061,190				US-PATENT-APPL-SN-572990				US-PATENT-4,064,566
N78-14625*	c 44			NASA-CASE-LEW-12039-1				US-PATENT-CLASS-185-38		N78-17237*	c 31	NASA-CASE-LEW-11981-1
				US-PATENT-APPL-SN-687822				US-PATENT-CLASS-74-81				US-PATENT-APPL-SN-672220
				US-PATENT-CLASS-320-15				US-PATENT-CLASS-74-83				US-PATENT-CLASS-313-22
				US-PATENT-CLASS-320-18				US-PATENT-4,062,245				US-PATENT-CLASS-62-376
				US-PATENT-CLASS-320-40		N78-16387*	c 39	NASA-CASE-LAR-11490-1				US-PATENT-CLASS-62-514R
				US-PATENT-CLASS-320-6				US-PATENT-APPL-SN-707125				US-PATENT-4,068,495
				US-PATENT-4,061,955				US-PATENT-CLASS-358-106		N78-17238*	c 31	NASA-CASE-NPO-11978
N78-14773*	c 52			NASA-CASE-LEW-12668-1				US-PATENT-4,063,282				US-PATENT-APPL-SN-264268
				US-PATENT-APPL-SN-677353		N78-17031*	c 04	NASA-CASE-NXP-01458				US-PATENT-CLASS-313-175
				US-PATENT-CLASS-128-305				US-PATENT-APPL-SN-160093				US-PATENT-CLASS-313-176
				US-PATENT-4,061,146				US-PATENT-CLASS-235-70				US-PATENT-CLASS-313-180
N78-14784*	c 54			NASA-CASE-MSC-14632-1				US-PATENT-3,229,905				US-PATENT-CLASS-313-184
				US-PATENT-APPL-SN-571459		N78-17055*	c 07	NASA-CASE-LEW-12317-1				US-PATENT-CLASS-313-224
				US-PATENT-CLASS-204-180P				US-PATENT-APPL-SN-581750				US-PATENT-3,769,544
				US-PATENT-CLASS-204-301				US-PATENT-CLASS-60-204		N78-17293*	c 33	NASA-CASE-XLE-06094
				US-PATENT-CLASS-210-192				US-PATENT-CLASS-60-226R				US-PATENT-APPL-SN-523632
				US-PATENT-CLASS-210-96M				US-PATENT-CLASS-60-271				US-PATENT-CLASS-315-22
				US-PATENT-CLASS-23-253A				US-PATENT-4,068,469				US-PATENT-3,423,627
				US-PATENT-4,061,570		N78-17056*	c 07	NASA-CASE-LEW-12390-1		N78-17294*	c 33	NASA-CASE-MSC-11235
N78-14867*	c 71			NASA-CASE-LAR-12106-1				US-PATENT-APPL-SN-522109				US-PATENT-APPL-SN-698239
				US-PATENT-APPL-SN-740156				US-PATENT-CLASS-60-226R				US-PATENT-CLASS-307-270
				US-PATENT-CLASS-330-52				US-PATENT-CLASS-74-385				US-PATENT-CLASS-307-297
				US-PATENT-CLASS-73-646				US-PATENT-CLASS-74-417				US-PATENT-CLASS-323-4
				US-PATENT-4,061,041				US-PATENT-4,068,470				US-PATENT-CLASS-328-172
N78-14889*	c 74			NASA-CASE-KSC-11047-1		N78-17140*	c 17	NASA-CASE-HQN-10880-1				US-PATENT-3,573,504
				US-PATENT-APPL-SN-715485				US-PATENT-APPL-SN-595254		N78-17295*	c 33	NASA-CASE-XGS-09186
				US-PATENT-CLASS-179-91R				US-PATENT-CLASS-325-118				US-PATENT-APPL-SN-669911
				US-PATENT-CLASS-250-199				US-PATENT-CLASS-325-66				US-PATENT-CLASS-323-18
				US-PATENT-CLASS-358-142				US-PATENT-CLASS-343-112R				US-PATENT-3,475,675
				US-PATENT-4,061,577				US-PATENT-CLASS-343-225		N78-17296*	c 33	NASA-CASE-GSC-10135
N78-15180*	c 24			NASA-CASE-ARC-10913-1				US-PATENT-CLASS-362-269				US-PATENT-APPL-SN-764823
				US-PATENT-APPL-SN-698646				US-PATENT-4,067,015				US-PATENT-CLASS-307-53
				US-PATENT-CLASS-106-15FP		N78-17149*	c 24	NASA-CASE-LAR-11898-2				US-PATENT-CLASS-307-69
				US-PATENT-CLASS-260-2.5N				US-PATENT-APPL-SN-723264				US-PATENT-CLASS-320-53
				US-PATENT-CLASS-260-2.5R				US-PATENT-APPL-SN-799024				US-PATENT-CLASS-323-19
				US-PATENT-CLASS-428-117				US-PATENT-CLASS-156-245				US-PATENT-3,600,599
				US-PATENT-CLASS-428-290				US-PATENT-CLASS-156-285		N78-17335*	c 34	NASA-CASE-LEW-12508-1
				US-PATENT-CLASS-428-71				US-PATENT-CLASS-156-289				US-PATENT-APPL-SN-746580
				US-PATENT-CLASS-428-73				US-PATENT-CLASS-428-116				US-PATENT-CLASS-62-3
				US-PATENT-CLASS-428-920				US-PATENT-CLASS-428-902				US-PATENT-4,069,028
				US-PATENT-4,061,812				US-PATENT-4,063,981		N78-17336*	c 34	NASA-CASE-ARC-10198
N78-15210*	c 25			NASA-CASE-LAR-12046-1		N78-17150*	c 24	NASA-CASE-LAR-12019-1				US-PATENT-APPL-SN-42088
				US-PATENT-APPL-SN-755310				US-PATENT-APPL-SN-792067				US-PATENT-CLASS-165-105
				US-PATENT-CLASS-23-230PC				US-PATENT-CLASS-156-154				US-PATENT-CLASS-165-134
				US-PATENT-CLASS-23-232E				US-PATENT-CLASS-156-264				US-PATENT-3,777,811
				US-PATENT-CLASS-23-232R				US-PATENT-CLASS-156-285		N78-17337*	c 34	NASA-CASE-ARC-10199
				US-PATENT-CLASS-73-23				US-PATENT-CLASS-156-286				US-PATENT-APPL-SN-824628
				US-PATENT-4,062,650				US-PATENT-CLASS-156-289				US-PATENT-CLASS-165-105
N78-15276*	c 27			NASA-CASE-LEW-12053-1				US-PATENT-CLASS-156-289				US-PATENT-CLASS-165-32
				US-PATENT-APPL-SN-513613				US-PATENT-CLASS-156-306				US-PATENT-CLASS-165-96
				US-PATENT-CLASS-260-2R				US-PATENT-CLASS-156-311				US-PATENT-CLASS-2-2.1
				US-PATENT-CLASS-526-193				US-PATENT-CLASS-264-157				US-PATENT-3,543,839
				US-PATENT-CLASS-526-225				US-PATENT-CLASS-264-90		N78-17357*	c 35	NASA-CASE-MFS-23194-1
				US-PATENT-CLASS-544-193				US-PATENT-CLASS-428-294				US-PATENT-APPL-SN-629458
				US-PATENT-4,061,856				US-PATENT-CLASS-428-302				US-PATENT-CLASS-350-3.5
N78-15323*	c 32			NASA-CASE-NPO-13836-1				US-PATENT-4,065,340				US-PATENT-4,065,202
				US-PATENT-APPL-SN-699002		N78-17205*	c 27	NASA-CASE-LAR-12181-1		N78-17358*	c 35	NASA-CASE-MSC-11242
				US-PATENT-CLASS-178-69.1				US-PATENT-APPL-SN-532784				US-PATENT-APPL-SN-636796
				US-PATENT-CLASS-325-58				US-PATENT-APPL-SN-734901				US-PATENT-CLASS-73-67.2
				US-PATENT-CLASS-325-63				US-PATENT-CLASS-156-309				US-PATENT-3,492,858
				US-PATENT-CLASS-343-179				US-PATENT-CLASS-156-331		N78-17359*	c 35	NASA-CASE-NPO-11150
				US-PATENT-4,061,974				US-PATENT-CLASS-260-30.4N				US-PATENT-APPL-SN-858950
N78-15461*	c 35			NASA-CASE-NPO-13808-1				US-PATENT-CLASS-260-32.2R				US-PATENT-CLASS-338-100
				US-PATENT-APPL-SN-675328				US-PATENT-CLASS-260-32.6NT				US-PATENT-CLASS-338-36
				US-PATENT-CLASS-250-322				US-PATENT-CLASS-260-33.4R				US-PATENT-CLASS-338-99
				US-PATENT-CLASS-250-416TV				US-PATENT-4,065,345				US-PATENT-3,641,470
				US-PATENT-4,063,092		N78-17206*	c 27	NASA-CASE-LAR-11902-1		N78-17366*	c 36	NASA-CASE-MFS-22597
N78-15512*	c 39			NASA-CASE-LAR-12016-1				US-PATENT-APPL-SN-672695				US-PATENT-APPL-SN-395895
				US-PATENT-APPL-SN-754066				US-PATENT-CLASS-106-43				US-PATENT-CLASS-31-15-108
				US-PATENT-CLASS-73-579				US-PATENT-CLASS-60-200A				US-PATENT-CLASS-331-94.5G
				US-PATENT-CLASS-73-630				US-PATENT-CLASS-75-229				US-PATENT-CLASS-331-94.5T
				US-PATENT-CLASS-73-88F				US-PATENT-CLASS-75-239				US-PATENT-3,882,417
				US-PATENT-4,062,227				US-PATENT-CLASS-75-241		N78-17383*	c 37	NASA-CASE-MSC-19666-1
N78-15560*	c 44			NASA-CASE-LAR-12009-1				US-PATENT-4,067,742				US-PATENT-APPL-SN-721150
				US-PATENT-APPL-SN-717320		N78-17213*	c 27	NASA-CASE-MSC-14331-2				US-PATENT-CLASS-118-50
				US-PATENT-CLASS-126-270				US-PATENT-APPL-SN-657907				US-PATENT-CLASS-118-500
				US-PATENT-CLASS-126-400				US-PATENT-CLASS-260-75NH				US-PATENT-CLASS-248-36.3
				US-PATENT-CLASS-237-1A				US-PATENT-CLASS-260-75NK				US-PATENT-CLASS-269-21
				US-PATENT-4,062,347				US-PATENT-CLASS-260-75NT				US-PATENT-CLASS-279-3
N78-15879*	c 74			NASA-CASE-LAR-10385-3				US-PATENT-CLASS-260-77.5AM				US-PATENT-CLASS-51-235
				US-PATENT-APPL-SN-370999				US-PATENT-CLASS-260-77.5AN				US-PATENT-4,066,039
				US-PATENT-APPL-SN-38816				US-PATENT-CLASS-260-77.5AP		N78-17384*	c 37	NASA-CASE-LEW-12916-1
				US-PATENT-CLASS-350-1				US-PATENT-CLASS-260-77.5AT				US-PATENT-APPL-SN-583056
				US-PATENT-CLASS-428-334				US-PATENT-CLASS-260-77.55P				US-PATENT-CLASS-60-261
				US-PATENT-CLASS-428-336				US-PATENT-4,069,212				US-PATENT-CLASS-60-262
				US-PATENT-CLASS-428-426		N78-17214*	c 27	NASA-CASE-NPO-10557				US-PATENT-CLASS-60-271

N78-17385*	c 37	US-PATENT-4,064,692 NASA-CASE-WOO-00625 US-PATENT-APPL-SN-362278 US-PATENT-CLASS-74-800 US-PATENT-3,306,134	N78-18083*	c 09	US-PATENT-CLASS-60-262 US-PATENT-4,069,661 NASA-CASE-ARC-10903-1 US-PATENT-APPL-SN-623536 US-PATENT-CLASS-35-12N US-PATENT-CLASS-358-104 US-PATENT-4,055,004	N78-24275*	c 20	NASA-CASE-LAR-12018-1 US-PATENT-APPL-SN-678520 US-PATENT-CLASS-102-39 US-PATENT-CLASS-102-49.7 US-PATENT-CLASS-102-70R US-PATENT-CLASS-285-192 US-PATENT-CLASS-60-39,82E US-PATENT-4,080,901
N78-17386*	c 37	NASA-CASE-NPO-10151 US-PATENT-APPL-SN-365244 US-PATENT-CLASS-328-233 US-PATENT-3,387,218	N78-18182*	c 26	NASA-CASE-LEW-12095-1 US-PATENT-APPL-SN-651009 US-PATENT-CLASS-75-124 US-PATENT-CLASS-75-126D US-PATENT-CLASS-75-126F US-PATENT-CLASS-75-128G US-PATENT-CLASS-75-128T US-PATENT-4,055,416	N78-24290*	c 24	NASA-CASE-MFS-23506-1 US-PATENT-APPL-SN-760809 US-PATENT-CLASS-260-2.5AK US-PATENT-CLASS-260-2.5AP US-PATENT-CLASS-260-2.5B US-PATENT-CLASS-260-2.5BEP US-PATENT-CLASS-260-2.5FP US-PATENT-CLASS-260-29.1R US-PATENT-CLASS-260-37EP US-PATENT-CLASS-427-427 US-PATENT-4,077,921
N78-17395*	c 38	NASA-CASE-NPO-13283 US-PATENT-APPL-SN-401225 US-PATENT-CLASS-235-151.3 US-PATENT-CLASS-235-156 US-PATENT-CLASS-235-181 US-PATENT-CLASS-250-572 US-PATENT-CLASS-356-237 US-PATENT-3,908,118	N78-18183*	c 26	NASA-CASE-LEW-12905-1 US-PATENT-APPL-SN-684171 US-PATENT-CLASS-148-32 US-PATENT-CLASS-148-32.5 US-PATENT-CLASS-75-170 US-PATENT-4,055,447	N78-24333*	c 26	NASA-CASE-MSC-19693-1 US-PATENT-APPL-SN-708771 US-PATENT-CLASS-148-12.7A US-PATENT-CLASS-148-125 US-PATENT-4,077,813
N78-17396*	c 38	NASA-CASE-NPO-13282 US-PATENT-APPL-SN-401224 US-PATENT-CLASS-235-151.3 US-PATENT-CLASS-235-156 US-PATENT-CLASS-250-563 US-PATENT-CLASS-250-572 US-PATENT-CLASS-356-165 US-PATENT-CLASS-356-237 US-PATENT-3,909,602	N78-18308*	c 33	NASA-CASE-FRC-10090-1 US-PATENT-APPL-SN-737974 US-PATENT-CLASS-307-265 US-PATENT-CLASS-307-350 US-PATENT-CLASS-307-360 US-PATENT-CLASS-328-150 US-PATENT-4,055,777	N78-24365*	c 28	NASA-CASE-LEW-12081-1 US-PATENT-APPL-SN-676432 US-PATENT-CLASS-250-492R US-PATENT-CLASS-34-15 US-PATENT-CLASS-423-648R US-PATENT-CLASS-62-100 US-PATENT-CLASS-62-48 US-PATENT-4,077,788
N78-17460*	c 44	NASA-CASE-NPO-13579-1 US-PATENT-APPL-SN-598969 US-PATENT-CLASS-126-263 US-PATENT-CLASS-126-271 US-PATENT-CLASS-165-2 US-PATENT-CLASS-237-1A US-PATENT-CLASS-60-641 US-PATENT-CLASS-62-4 US-PATENT-4,065,053	N78-18355*	c 34	NASA-CASE-LEW-12554-1 US-PATENT-APPL-SN-686449 US-PATENT-CLASS-427-34 US-PATENT-CLASS-427-405 US-PATENT-CLASS-427-419A US-PATENT-CLASS-427-423 US-PATENT-CLASS-428-633 US-PATENT-CLASS-428-652 US-PATENT-CLASS-428-667 US-PATENT-4,055,705	N78-24391*	c 32	NASA-CASE-NPO-13886-1 US-PATENT-APPL-SN-730045 US-PATENT-CLASS-307-151 US-PATENT-CLASS-343-700MS US-PATENT-CLASS-361-395 US-PATENT-4,079,268
N78-17675*	c 54	NASA-CASE-ARC-11101-1 US-PATENT-APPL-SN-753976 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-36-119 US-PATENT-CLASS-36-92 US-PATENT-4,064,642	N78-18390*	c 35	NASA-CASE-MFS-23008-1 US-PATENT-APPL-SN-665734 US-PATENT-CLASS-73-DIG.11 US-PATENT-CLASS-73-28 US-PATENT-CLASS-73-432PS US-PATENT-CLASS-73-432R US-PATENT-4,055,089	N78-24515*	c 35	NASA-CASE-LAR-11201-1 US-PATENT-APPL-SN-788705 US-PATENT-CLASS-416-144 US-PATENT-CLASS-416-61 US-PATENT-CLASS-73-456 US-PATENT-CLASS-73-756 US-PATENT-4,082,001
N78-17676*	c 54	NASA-CASE-MFS-23311-1 US-PATENT-APPL-SN-708800 US-PATENT-CLASS-214-1CM US-PATENT-CLASS-3-12.5 US-PATENT-CLASS-74-515E US-PATENT-4,068,763	N78-18391*	c 35	NASA-CASE-NPO-13687-1 US-PATENT-APPL-SN-641803 US-PATENT-CLASS-356-106S US-PATENT-CLASS-356-110 US-PATENT-4,053,231	N78-24544*	c 37	NASA-CASE-MSC-16000-1 US-PATENT-APPL-SN-739915 US-PATENT-CLASS-29-156.8R US-PATENT-CLASS-29-23.5 US-PATENT-CLASS-29-244 US-PATENT-CLASS-29-252 US-PATENT-4,078,290
N78-17677*	c 54	NASA-CASE-MSC-13054 US-PATENT-APPL-SN-585217 US-PATENT-CLASS-2-161 US-PATENT-3,490,074	N78-18395* #	c 35	NASA-CASE-NPO-13999-1 US-PATENT-APPL-SN-585896	N78-24545*	c 37	NASA-CASE-LEW-12785-1 US-PATENT-APPL-SN-739909 US-PATENT-CLASS-60-39.28R US-PATENT-4,078,378
N78-17678*	c 54	NASA-CASE-XMS-04670 US-PATENT-APPL-SN-535169 US-PATENT-CLASS-2-2.1 US-PATENT-3,488,771	N78-18410*	c 36	NASA-CASE-NPO-13801-1 US-PATENT-APPL-SN-708796 US-PATENT-CLASS-330-4 US-PATENT-CLASS-332-7.5 US-PATENT-4,055,810	N78-24608*	c 44	NASA-CASE-GSC-12030-1 US-PATENT-APPL-SN-710035 US-PATENT-CLASS-308-10 US-PATENT-CLASS-310-153 US-PATENT-CLASS-310-154 US-PATENT-CLASS-310-178 US-PATENT-CLASS-310-269 US-PATENT-4,077,678
N78-17679*	c 54	NASA-CASE-XMS-04928 US-PATENT-APPL-SN-584914 US-PATENT-CLASS-98-1 US-PATENT-3,487,765	N78-18761*	c 54	NASA-CASE-MSC-10954-1 US-PATENT-APPL-SN-529884 US-PATENT-CLASS-2-2.1 US-PATENT-3,514,785	N78-24609*	c 44	NASA-CASE-GSC-12022-2 US-PATENT-APPL-SN-693074 US-PATENT-CLASS-136-89SG US-PATENT-CLASS-148-174 US-PATENT-CLASS-29-572 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-59 US-PATENT-CLASS-427-113 US-PATENT-CLASS-427-248J US-PATENT-CLASS-427-249 US-PATENT-CLASS-427-86 US-PATENT-4,077,818
N78-17680*	c 54	NASA-CASE-XMS-09653 US-PATENT-APPL-SN-538863 US-PATENT-CLASS-2-6 US-PATENT-3,359,568	N78-18905*	c 74	NASA-CASE-GSC-12010-1 US-PATENT-APPL-SN-680958 US-PATENT-CLASS-250-213VT US-PATENT-CLASS-313-442 US-PATENT-CLASS-313-94 US-PATENT-4,070,574	N78-24950*	c 76	NASA-CASE-MFS-23315-1 US-PATENT-APPL-SN-724874 US-PATENT-CLASS-250-277CH US-PATENT-CLASS-250-280 US-PATENT-4,078,175
N78-17691*	c 60	NASA-CASE-GSC-12044-1 US-PATENT-APPL-SN-631341 US-PATENT-CLASS-340-347DD US-PATENT-4,069,478	N78-19302*	c 27	NASA-CASE-NPO-13690-1 US-PATENT-APPL-SN-633876 US-PATENT-CLASS-106-39.5 US-PATENT-CLASS-106-65 US-PATENT-CLASS-106-73.5 US-PATENT-4,072,532	N78-25089*	c 07	NASA-CASE-LEW-12452-1 US-PATENT-APPL-SN-695513 US-PATENT-CLASS-60-226R US-PATENT-CLASS-60-39.52 US-PATENT-4,083,181
N78-17865*	c 74	NASA-CASE-MSC-12618-1 US-PATENT-APPL-SN-651007 US-PATENT-CLASS-350-159 US-PATENT-CLASS-358-225 US-PATENT-CLASS-358-41 US-PATENT-CLASS-358-55 US-PATENT-4,067,043	N78-19465*	c 35	NASA-CASE-ARC-10896-1 US-PATENT-APPL-SN-615030 US-PATENT-CLASS-73-23 US-PATENT-4,055,072	N78-25090*	c 07	NASA-CASE-LEW-11855-1 US-PATENT-APPL-SN-672222 US-PATENT-CLASS-277-134 US-PATENT-CLASS-277-25 US-PATENT-4,084,825
N78-17866*	c 74	NASA-CASE-LAR-11711-1 US-PATENT-APPL-SN-674195 US-PATENT-CLASS-250-201 US-PATENT-CLASS-350-204 US-PATENT-CLASS-356-28 US-PATENT-4,063,814	N78-19466*	c 35	NASA-CASE-ARC-10820-1 US-PATENT-APPL-SN-620675 US-PATENT-CLASS-119-51.11 US-PATENT-CLASS-119-72.5 US-PATENT-CLASS-137-624.11 US-PATENT-4,055,147	N78-25119*	c 15	NASA-CASE-MFS-23564-1 US-PATENT-APPL-SN-739908 US-PATENT-CLASS-244-161 US-PATENT-CLASS-244-167
N78-17867*	c 74	NASA-CASE-NPO-13759-1 US-PATENT-APPL-SN-718266 US-PATENT-CLASS-250-344 US-PATENT-CLASS-356-204 US-PATENT-CLASS-356-246 US-PATENT-4,067,653	N78-19599*	c 44	NASA-CASE-LEW-12159-1 US-PATENT-APPL-SN-643041 US-PATENT-CLASS-126-270 US-PATENT-CLASS-427-160 US-PATENT-CLASS-428-652 US-PATENT-CLASS-428-667 US-PATENT-CLASS-428-679 US-PATENT-4,055,707			
N78-18066*	c 07	NASA-CASE-LEW-12389-2 US-PATENT-APPL-SN-628221 US-PATENT-CLASS-244-53A US-PATENT-CLASS-244-54 US-PATENT-CLASS-60-226R US-PATENT-CLASS-60-39.31 US-PATENT-4,055,041	N78-19920*	c 73	NASA-CASE-HQN-10841-1 US-PATENT-APPL-SN-560891 US-PATENT-CLASS-176-39 US-PATENT-CLASS-330-4.3 US-PATENT-4,075,057			
N78-18067*	c 07	NASA-CASE-LEW-12917-1 US-PATENT-APPL-SN-583055 US-PATENT-CLASS-60-204						

N78-25148*	c 25	US-PATENT-4,083,520	N78-27176* #	c 20	NASA-CASE-MFS-23642-2	N78-28594*	c 44	US-PATENT-4,088,951
		NASA-CASE-LEW-12465-1			US-PATENT-APPL-SN-923758			NASA-CASE-NPO-13821-1
		US-PATENT-APPL-SN-692413			NASA-CASE-ARC-11043-1			US-PATENT-APPL-SN-688852
		US-PATENT-CLASS-250-423P			US-PATENT-APPL-SN-753964			US-PATENT-CLASS-343-113R
		US-PATENT-CLASS-250-528	N78-27180*	c 24	US-PATENT-CLASS-260-33.6EP	N78-28913*	c 73	US-PATENT-CLASS-343-119
		US-PATENT-CLASS-250-531			US-PATENT-CLASS-260-33.6PO			US-PATENT-CLASS-343-16M
		US-PATENT-CLASS-55-100			US-PATENT-CLASS-260-33.8EP			US-PATENT-4,088,999
		US-PATENT-CLASS-55-101			US-PATENT-CLASS-260-33.8UA			NASA-CASE-NPO-13114-2
N78-25256*	c 31	US-PATENT-CLASS-55-2	N78-27180*	c 24	US-PATENT-CLASS-260-37EP	N78-28913*	c 73	US-PATENT-APPL-SN-294738
		US-PATENT-4,085,332			US-PATENT-CLASS-260-42.43			US-PATENT-APPL-SN-634214
		NASA-CASE-NPO-13839-1			US-PATENT-CLASS-260-45.7R			US-PATENT-CLASS-176-22
		US-PATENT-APPL-SN-712981			US-PATENT-CLASS-260-45.75W			US-PATENT-CLASS-176-33
		US-PATENT-CLASS-250-332	N78-27184* #	c 24	US-PATENT-CLASS-260-45.85N	N78-29421*	c 35	US-PATENT-CLASS-176-39
		US-PATENT-CLASS-313-22			US-PATENT-CLASS-260-45.9R			US-PATENT-4,085,004
		US-PATENT-CLASS-62-514R			US-PATENT-CLASS-260-47.386			NASA-CASE-NPO-11954-1
		US-PATENT-4,077,231			US-PATENT-CLASS-427-388A			US-PATENT-APPL-SN-229287
N78-25319*	c 33	NASA-CASE-NPO-13909-1	N78-27226*	c 25	US-PATENT-CLASS-428-313	N78-31129*	c 09	US-PATENT-CLASS-179-100.2CH
		US-PATENT-APPL-SN-744477			US-PATENT-CLASS-428-332			US-PATENT-CLASS-340-174.1M
		US-PATENT-CLASS-324-57DE			US-PATENT-CLASS-428-921			US-PATENT-CLASS-340-174YC
		US-PATENT-CLASS-324-57SS			US-PATENT-4,088,806			US-PATENT-CLASS-350-151
N78-25350*	c 34	US-PATENT-CLASS-324-58A	N78-27226*	c 25	NASA-CASE-ARC-11040-2	N78-31129*	c 09	US-PATENT-3,775,570
		US-PATENT-4,084,132			US-PATENT-APPL-SN-920878			NASA-CASE-MSC-19706-1
		NASA-CASE-MSC-19568-1			NASA-CASE-LEW-10518-3			US-PATENT-APPL-SN-767911
		US-PATENT-APPL-SN-681000			US-PATENT-APPL-SN-394207			US-PATENT-CLASS-239-265.25
		US-PATENT-CLASS-428-913	N78-27326*	c 33	US-PATENT-CLASS-176-11	N78-31232*	c 27	US-PATENT-CLASS-73-147
		US-PATENT-CLASS-428-93			US-PATENT-CLASS-176-16			US-PATENT-4,091,665
		US-PATENT-CLASS-428-94			US-PATENT-CLASS-250-400			NASA-CASE-ARC-11008-1
		US-PATENT-CLASS-428-95			US-PATENT-CLASS-250-429			US-PATENT-APPL-SN-708951
		US-PATENT-CLASS-428-96	N78-27326*	c 33	US-PATENT-CLASS-250-492B	N78-31232*	c 27	US-PATENT-CLASS-260-2.5N
		US-PATENT-CLASS-428-97			US-PATENT-4,088,532			US-PATENT-CLASS-260-47CP
		US-PATENT-CLASS-49-DIG.1			NASA-CASE-MFS-23312-1			US-PATENT-CLASS-260-63N
		US-PATENT-CLASS-49-479			US-PATENT-APPL-SN-699012			US-PATENT-CLASS-260-78.41
N78-25351*	c 34	US-PATENT-CLASS-49-485	N78-27384*	c 35	US-PATENT-CLASS-29-571	N78-31233*	c 27	US-PATENT-4,092,274
		US-PATENT-4,078,110			US-PATENT-CLASS-29-578			NASA-CASE-ARC-11057-1
		NASA-CASE-LEW-12718-1			US-PATENT-CLASS-357-91			US-PATENT-APPL-SN-807762
		US-PATENT-APPL-SN-779428			US-PATENT-4,087,902			US-PATENT-CLASS-350-165
		US-PATENT-CLASS-137-484.2	N78-27357*	c 34	NASA-CASE-LEW-11877-1	N78-31255*	c 28	US-PATENT-CLASS-350-175NG
		US-PATENT-CLASS-137-501			US-PATENT-APPL-SN-708660			US-PATENT-CLASS-427-164
		US-PATENT-CLASS-137-505.16			US-PATENT-CLASS-431-10			US-PATENT-CLASS-427-40
		US-PATENT-4,084,612			US-PATENT-CLASS-431-328			US-PATENT-CLASS-427-41
N78-25391*	c 35	US-PATENT-CLASS-431-7	N78-27402*	c 36	US-PATENT-CLASS-431-378	N78-31426*	c 37	US-PATENT-CLASS-428-411
		NASA-CASE-NPO-13948-1			US-PATENT-CLASS-60-39.65			US-PATENT-CLASS-428-412
		US-PATENT-APPL-SN-752748			US-PATENT-CLASS-60-39.69R			US-PATENT-CLASS-428-422
		US-PATENT-CLASS-204-195W			US-PATENT-CLASS-60-39.69R			US-PATENT-CLASS-428-447
		US-PATENT-CLASS-73-336.5	N78-27423*	c 37	US-PATENT-4,087,962	N78-31525*	c 44	US-PATENT-CLASS-428-515
		US-PATENT-4,083,765			NASA-CASE-LAR-11973-1			US-PATENT-CLASS-428-523
		NASA-CASE-MSC-12731-1			US-PATENT-APPL-SN-821681			US-PATENT-CLASS-428-538
		US-PATENT-APPL-SN-690816			US-PATENT-CLASS-73-170A			US-PATENT-4,091,166
N78-25426*	c 37	US-PATENT-CLASS-137-625.3	N78-27423*	c 37	US-PATENT-CLASS-73-425.4R	N78-31255*	c 28	US-PATENT-4,091,166
		US-PATENT-CLASS-137-625.38			US-PATENT-CLASS-73-61R			NASA-CASE-NPO-14103-1
		US-PATENT-4,083,380			US-PATENT-4,089,209			US-PATENT-APPL-SN-797210
		NASA-CASE-LEW-12552-1			NASA-CASE-NPO-13945-1			US-PATENT-CLASS-149-105
N78-25527*	c 44	US-PATENT-APPL-SN-770869	N78-27402*	c 36	US-PATENT-APPL-SN-704180	N78-31321*	c 32	US-PATENT-CLASS-149-111
		US-PATENT-CLASS-136-89CC			US-PATENT-CLASS-331-94.5G			US-PATENT-CLASS-149-19.8
		US-PATENT-CLASS-29-572			US-PATENT-CLASS-331-94.5P			US-PATENT-CLASS-149-19.8
		US-PATENT-CLASS-357-30			US-PATENT-CLASS-331-94.5PE			US-PATENT-CLASS-149-88
		US-PATENT-CLASS-357-65	N78-27423*	c 37	US-PATENT-4,088,965	N78-31526*	c 44	US-PATENT-CLASS-149-92
		US-PATENT-CLASS-357-67			NASA-CASE-MSC-16270-1			US-PATENT-CLASS-149-93
		US-PATENT-CLASS-427-261			US-PATENT-APPL-SN-837260			US-PATENT-4,092,188
		US-PATENT-CLASS-427-75			US-PATENT-CLASS-269-21			NASA-CASE-NPO-14022-1
N78-25528*	c 44	US-PATENT-4,082,569	N78-27424*	c 37	US-PATENT-CLASS-269-266	N78-31321*	c 32	US-PATENT-APPL-SN-780728
		NASA-CASE-LEW-12185-1			US-PATENT-4,088,312			US-PATENT-CLASS-343-781CA
		US-PATENT-APPL-SN-746269			NASA-CASE-LAR-11889-2			US-PATENT-CLASS-343-782
		US-PATENT-CLASS-136-89H			US-PATENT-APPL-SN-662182			US-PATENT-CLASS-343-837
		US-PATENT-CLASS-136-89P	N78-27424*	c 37	US-PATENT-APPL-SN-807703	N78-31426*	c 37	US-PATENT-4,092,648
		US-PATENT-CLASS-136-89P			US-PATENT-APPL-SN-807703			NASA-CASE-GSC-11883-2
		US-PATENT-CLASS-29-572			US-PATENT-CLASS-308-10			US-PATENT-APPL-SN-596787
		US-PATENT-CLASS-29-628			US-PATENT-CLASS-73-178R			US-PATENT-APPL-SN-747675
N78-25529*	c 44	US-PATENT-4,083,097	N78-27425*	c 37	US-PATENT-4,088,018	N78-31525*	c 44	US-PATENT-CLASS-60-527
		NASA-CASE-LEW-12541-1			NASA-CASE-ARC-10981-1			US-PATENT-CLASS-74-100R
		US-PATENT-APPL-SN-790637			US-PATENT-APPL-SN-738218			US-PATENT-4,010,455
		US-PATENT-CLASS-136-89CC			US-PATENT-CLASS-248-178			US-PATENT-4,092,874
		US-PATENT-CLASS-136-89H	N78-27424*	c 37	US-PATENT-CLASS-248-186	N78-31525*	c 44	NASA-CASE-NPO-13581-2
		US-PATENT-CLASS-136-89H			US-PATENT-4,088,291			US-PATENT-APPL-SN-13581-2
		US-PATENT-CLASS-136-89P			NASA-CASE-NPO-12148-1			US-PATENT-APPL-SN-590975
		US-PATENT-CLASS-156-633			US-PATENT-APPL-SN-709415			US-PATENT-APPL-SN-811815
N78-25530*	c 44	US-PATENT-CLASS-29-572	N78-27733*	c 51	US-PATENT-CLASS-136-89P	N78-31526*	c 44	US-PATENT-CLASS-126-271
		US-PATENT-4,084,985			US-PATENT-4,089,705			US-PATENT-CLASS-237-1A
		NASA-CASE-LEW-12649-1			US-PATENT-4,089,705			US-PATENT-4,091,800
		US-PATENT-APPL-SN-720521			NASA-CASE-ARC-10917-1			NASA-CASE-NPO-13914-1
		US-PATENT-CLASS-427-385B	N78-27904*	c 74	US-PATENT-APPL-SN-672223	N78-31526*	c 44	US-PATENT-APPL-SN-13914-1
		US-PATENT-CLASS-427-385C			US-PATENT-CLASS-119-29			US-PATENT-APPL-SN-765139
		US-PATENT-CLASS-429-254			US-PATENT-4,088,094			US-PATENT-CLASS-126-270
		US-PATENT-4,085,241			NASA-CASE-LAR-11869-1			US-PATENT-CLASS-126-271
N78-25531*	c 44	US-PATENT-CLASS-320-39	N78-27913*	c 75	US-PATENT-APPL-SN-740155	N78-31527*	c 44	US-PATENT-CLASS-350-299
		US-PATENT-CLASS-320-9			US-PATENT-CLASS-356-120			US-PATENT-4,091,798
		US-PATENT-4,084,124			US-PATENT-CLASS-356-167			NASA-CASE-NPO-13937-1
		NASA-CASE-MFS-23270-1			US-PATENT-4,088,408			US-PATENT-APPL-SN-718137
		US-PATENT-APPL-SN-744573	N78-27913*	c 75	NASA-CASE-MFS-22906-1	N78-31527*	c 44	US-PATENT-CLASS-201-17
		US-PATENT-CLASS-320-13			US-PATENT-APPL-SN-684807			US-PATENT-CLASS-44-1R
		US-PATENT-CLASS-320-15			US-PATENT-CLASS-29-81C			US-PATENT-CLASS-44-2
		US-PATENT-CLASS-320-32			US-PATENT-CLASS-313-231.3			US-PATENT-4,081,250
N78-27121*	c 07	US-PATENT-CLASS-320-9	N78-28411*	c 35	US-PATENT-CLASS-315-111.2	N78-31735*	c 54	NASA-CASE-ARC-11058-1
		US-PATENT-4,084,124			US-PATENT-4,088,926			US-PATENT-APPL-SN-753965
		NASA-CASE-LAR-11919-1			NASA-CASE-KSC-11035-1			US-PATENT-CLASS-2.2.1A
		US-PATENT-APPL-SN-672221			US-PATENT-APPL-SN-780874			US-PATENT-CLASS-285-235
		US-PATENT-CLASS-239-265.25	N78-28411*	c 35	US-PATENT-CLASS-324-130	N78-31736*	c 54	US-PATENT-4,091,464
		US-PATENT-CLASS-239-265.33			US-PATENT-CLASS-324-32			NASA-CASE-ARC-11100-1
		US-PATENT-CLASS-60-230			US-PATENT-CLASS-324-74			
		US-PATENT-4,088,270						

			US-PATENT-APPL-SN-780569	N78-32340*	c 33	NASA-CASE-GSC-12146-1	US-PATENT-CLASS-123-3
			US-PATENT-CLASS-2-2.1A			US-PATENT-APPL-SN-782480	US-PATENT-4,112,875
			US-PATENT-4,091,465			US-PATENT-CLASS-325-159	N78-33913* c 74 NASA-CASE-NPO-10233-1
N78-32086*	c 05		NASA-CASE-LAR-11932-1			US-PATENT-CLASS-325-187	US-PATENT-APPL-SN-716885
			US-PATENT-APPL-SN-718244			US-PATENT-CLASS-333-178	US-PATENT-CLASS-250-218
			US-PATENT-CLASS-244-218			US-PATENT-CLASS-333-81R	US-PATENT-CLASS-250-227
			US-PATENT-CLASS-244-45A			US-PATENT-4,092,617	US-PATENT-CLASS-250-239
			US-PATENT-CLASS-244-46	N78-32341*	c 33	NASA-CASE-LEW-12791-1	US-PATENT-CLASS-356-208
			US-PATENT-4,093,156			US-PATENT-APPL-SN-801432	US-PATENT-3,573,470
N78-32168* #	c 15		NASA-CASE-LAR-12264-1			US-PATENT-CLASS-363-101	N79-10057* c 07 NASA-CASE-LEW-12232-1
			US-PATENT-APPL-SN-943087			US-PATENT-CLASS-363-16	US-PATENT-APPL-SN-776029
N78-32179*	c 20		NASA-CASE-NPO-11458A			US-PATENT-CLASS-363-60	US-PATENT-CLASS-415-115
			US-PATENT-APPL-SN-48621			US-PATENT-4,092,712	US-PATENT-CLASS-415-116
			US-PATENT-CLASS-102-103	N78-32395*	c 35	NASA-CASE-ARC-11036-1	US-PATENT-CLASS-60-39.14
			US-PATENT-CLASS-149-19.4			US-PATENT-APPL-SN-740457	US-PATENT-4,117,669
			US-PATENT-CLASS-149-42			US-PATENT-CLASS-33-366	N79-10162* c 25 NASA-CASE-ARC-11053-1
			US-PATENT-CLASS-149-43			US-PATENT-4,094,073	US-PATENT-APPL-SN-814378
			US-PATENT-CLASS-149-44	N78-32396*	c 35	NASA-CASE-MFS-23363-1	US-PATENT-CLASS-23-252R
			US-PATENT-CLASS-149-76			US-PATENT-APPL-SN-730046	US-PATENT-CLASS-423-581
			US-PATENT-CLASS-149-83			US-PATENT-CLASS-324-173	US-PATENT-4,101,644
			US-PATENT-CLASS-149-85			US-PATENT-CLASS-324-207	N79-10163* c 25 NASA-CASE-NPO-13274-1
			US-PATENT-4,116,131			US-PATENT-4,093,917	US-PATENT-APPL-SN-406296
N78-32229*	c 26		NASA-CASE-ARC-10992-1	N78-32397*	c 35	NASA-CASE-LAR-11617-2	US-PATENT-CLASS-204-180S
			US-PATENT-APPL-SN-760810			US-PATENT-APPL-SN-547072	US-PATENT-CLASS-204-299
			US-PATENT-CLASS-204-164			US-PATENT-APPL-SN-668771	US-PATENT-3,932,262
			US-PATENT-CLASS-204-175			US-PATENT-CLASS-324-249	N79-10262* c 32 NASA-CASE-NPO-13941-1
			US-PATENT-CLASS-423-582			US-PATENT-4,088,954	US-PATENT-APPL-SN-774384
			US-PATENT-CLASS-423-583	N78-32447*	c 38	NASA-CASE-MFS-23114-1	US-PATENT-CLASS-307-233R
			US-PATENT-4,094,758			US-PATENT-APPL-SN-686331	US-PATENT-CLASS-324-77B
N78-32256*	c 27		NASA-CASE-MSC-14903-1			US-PATENT-CLASS-350-3.5	US-PATENT-CLASS-324-77C
			US-PATENT-APPL-SN-706424			US-PATENT-CLASS-356-72	US-PATENT-4,118,666
			US-PATENT-CLASS-260-2P			US-PATENT-CLASS-356-73	N79-10263* c 32 NASA-CASE-MSC-12743-1
			US-PATENT-CLASS-260-551P			US-PATENT-CLASS-73-603	US-PATENT-APPL-SN-765167
			US-PATENT-CLASS-260-606-5P			US-PATENT-4,093,382	US-PATENT-CLASS-325-41
			US-PATENT-CLASS-260-959	N78-32539*	c 44	NASA-CASE-LAR-11208-1	US-PATENT-CLASS-340-146.1AX
			US-PATENT-CLASS-526-13			US-PATENT-APPL-SN-710036	US-PATENT-CLASS-340-146.1E
			US-PATENT-CLASS-526-23			US-PATENT-CLASS-417-88	US-PATENT-4,100,531
			US-PATENT-CLASS-526-27			US-PATENT-CLASS-60-39.07	N79-10264* c 32 NASA-CASE-MFS-22234-1
			US-PATENT-CLASS-526-275			US-PATENT-CLASS-60-39.14	US-PATENT-APPL-SN-730778
			US-PATENT-CLASS-526-276			US-PATENT-CLASS-60-39.33	US-PATENT-CLASS-343-6R
			US-PATENT-CLASS-526-278			US-PATENT-CLASS-98-1.5	US-PATENT-CLASS-343-9
			US-PATENT-CLASS-526-49			US-PATENT-4,091,613	US-PATENT-4,118,701
			US-PATENT-CLASS-526-50	N78-32542*	c 44	NASA-CASE-KSC-11034-1	N79-10337* c 33 NASA-CASE-KSC-11018-1
			US-PATENT-CLASS-544-195			US-PATENT-APPL-SN-782481	US-PATENT-APPL-SN-782693
			US-PATENT-4,092,466			US-PATENT-CLASS-60-641	US-PATENT-CLASS-324-133
N78-32260*	c 27		NASA-CASE-ARC-11051-1			US-PATENT-CLASS-60-671	US-PATENT-CLASS-324-72
			US-PATENT-APPL-SN-736910			US-PATENT-4,087,975	US-PATENT-CLASS-324-96
			US-PATENT-CLASS-106-48	N78-32720*	c 54	NASA-CASE-MSC-14805-1	US-PATENT-4,100,487
			US-PATENT-CLASS-106-54			US-PATENT-APPL-SN-688856	N79-10338* c 33 NASA-CASE-GSC-12228-1
			US-PATENT-CLASS-427-215			US-PATENT-CLASS-340-213R	US-PATENT-APPL-SN-858764
			US-PATENT-CLASS-427-376A			US-PATENT-CLASS-340-262	US-PATENT-CLASS-324-57R
			US-PATENT-CLASS-427-376B			US-PATENT-CLASS-340-279	US-PATENT-CLASS-324-83D
			US-PATENT-CLASS-427-379			US-PATENT-CLASS-340-285	US-PATENT-CLASS-324-85
			US-PATENT-CLASS-427-380			US-PATENT-CLASS-340-309.1	US-PATENT-CLASS-328-163
			US-PATENT-CLASS-428-312	N78-32721*	c 54	NASA-CASE-ARC-11059-1	US-PATENT-4,118,665
			US-PATENT-CLASS-428-325			US-PATENT-APPL-SN-753978	N79-10339* c 33 NASA-CASE-LEW-12013-1
			US-PATENT-CLASS-428-331			US-PATENT-CLASS-128-142.7	US-PATENT-APPL-SN-768795
			US-PATENT-CLASS-428-341			US-PATENT-CLASS-62-259	US-PATENT-CLASS-301-82
			US-PATENT-CLASS-428-406			US-PATENT-4,095,593	US-PATENT-CLASS-315-3.5
			US-PATENT-CLASS-428-427	N78-32848*	c 73	NASA-CASE-GSC-12083-1	US-PATENT-CLASS-315-3.6
			US-PATENT-CLASS-428-428			US-PATENT-APPL-SN-643897	US-PATENT-CLASS-330-43
			US-PATENT-CLASS-428-446			US-PATENT-CLASS-350-170	US-PATENT-4,118,671
			US-PATENT-CLASS-428-920			US-PATENT-CLASS-350-173	N79-10389* c 35 NASA-CASE-MFS-23461-1
			US-PATENT-CLASS-65-30R			US-PATENT-CLASS-350-174	US-PATENT-APPL-SN-694406
			US-PATENT-CLASS-65-60D			US-PATENT-CLASS-350-286	US-PATENT-CLASS-250-475
			US-PATENT-4,093,771			US-PATENT-CLASS-350-320	US-PATENT-CLASS-252-301.1R
N78-32261*	c 27		NASA-CASE-LAR-11828-1	N78-32854*	c 74	NASA-CASE-ARC-11039-1	US-PATENT-CLASS-252-301.1R
			US-PATENT-APPL-SN-448321			US-PATENT-APPL-SN-750655	US-PATENT-CLASS-96-27R
			US-PATENT-APPL-SN-562992			US-PATENT-CLASS-351-166	US-PATENT-CLASS-96-60R
			US-PATENT-CLASS-260-47CP			US-PATENT-CLASS-427-164	US-PATENT-4,101,780
			US-PATENT-CLASS-260-49			US-PATENT-CLASS-427-302	N79-10390* c 35 NASA-CASE-LAR-12260-1
			US-PATENT-CLASS-260-63N			US-PATENT-CLASS-427-322	US-PATENT-CLASS-73-579
			US-PATENT-CLASS-260-63R			US-PATENT-CLASS-427-38	US-PATENT-CLASS-73-589
			US-PATENT-CLASS-260-65			US-PATENT-CLASS-427-387	US-PATENT-4,117,731
			US-PATENT-CLASS-260-78TF			US-PATENT-CLASS-427-41	N79-10391* c 35 NASA-CASE-NPO-13862-1
			US-PATENT-4,094,862			US-PATENT-CLASS-427-44	US-PATENT-APPL-SN-744577
N78-32262*	c 27		NASA-CASE-MSC-14331-3			US-PATENT-CLASS-428-412	US-PATENT-CLASS-324-77K
			US-PATENT-APPL-SN-657998			US-PATENT-CLASS-428-447	US-PATENT-CLASS-343-17.2PC
			US-PATENT-CLASS-264-130			US-PATENT-4,096,315	US-PATENT-CLASS-343-5CM
			US-PATENT-CLASS-264-184			NASA-CASE-LEW-12496-1	US-PATENT-CLASS-343-5W
			US-PATENT-CLASS-264-211	N78-33101*	c 07	US-PATENT-APPL-SN-668971	US-PATENT-4,101,891
			US-PATENT-CLASS-264-236			US-PATENT-CLASS-29-463	N79-10418* c 37 NASA-CASE-LEW-12569-1
			US-PATENT-4,094,943			US-PATENT-CLASS-416-214A	US-PATENT-APPL-SN-792069
N78-32338*	c 33		NASA-CASE-GSC-12137-1			US-PATENT-CLASS-416-244A	US-PATENT-CLASS-308-DIG.1
			US-PATENT-APPL-SN-808510			US-PATENT-CLASS-74-572	US-PATENT-CLASS-308-121
			US-PATENT-CLASS-329-124			US-PATENT-4,097,194	US-PATENT-CLASS-308-160
			US-PATENT-CLASS-331-12	N78-33228*	c 27	NASA-CASE-NPO-08835-1	US-PATENT-CLASS-308-163
			US-PATENT-CLASS-331-4			US-PATENT-APPL-SN-588721	US-PATENT-CLASS-308-172
			US-PATENT-CLASS-331-64			US-PATENT-CLASS-260-28.5	US-PATENT-CLASS-308-5R
			US-PATENT-4,092,606			US-PATENT-3,527,724	US-PATENT-CLASS-308-9
N78-32339*	c 33		NASA-CASE-GSC-12145-1			NASA-CASE-NPO-13763-1	US-PATENT-4,099,799
			US-PATENT-APPL-SN-769149	N78-33526*	c 44	US-PATENT-APPL-SN-718268	N79-10419* c 37 NASA-CASE-FRC-10111-1
			US-PATENT-CLASS-307-229			US-PATENT-CLASS-123-DIG.12	US-PATENT-APPL-SN-713027
			US-PATENT-CLASS-307-230			US-PATENT-CLASS-123-1A	US-PATENT-CLASS-30-90.6
			US-PATENT-CLASS-328-145				US-PATENT-CLASS-81-9.5R
			US-PATENT-4,091,329				US-PATENT-4,117,749

N79-10420*	c 37	NASA-CASE-NPO-14014-1 US-PATENT-APPL-SN-826204 US-PATENT-CLASS-188-1C US-PATENT-CLASS-256-1 US-PATENT-CLASS-256-13.1 US-PATENT-4,118,014	US-PATENT-CLASS-325-4 US-PATENT-CLASS-325-67 US-PATENT-CLASS-343-17.7 US-PATENT-4,119,964	US-PATENT-CLASS-427-84 US-PATENT-4,122,214
N79-10421*	c 37	NASA-CASE-MFS-23620-1 US-PATENT-APPL-SN-799023 US-PATENT-CLASS-219-124.2.2 US-PATENT-CLASS-219-124.32 US-PATENT-CLASS-219-125.1 US-PATENT-CLASS-228-8 US-PATENT-4,118,620	N79-11313* c 33 NASA-CASE-MSC-16461-1 US-PATENT-APPL-SN-858765 US-PATENT-CLASS-307-232 US-PATENT-CLASS-328-133 US-PATENT-CLASS-331-1A US-PATENT-CLASS-331-14 US-PATENT-CLASS-331-23 US-PATENT-CLASS-331-27 US-PATENT-4,119,926	N79-11865* c 74 NASA-CASE-MFS-23513-1 US-PATENT-APPL-SN-755323 US-PATENT-CLASS-356-124 US-PATENT-CLASS-356-210 US-PATENT-4,102,580
N79-10422*	c 37	NASA-CASE-MFS-23051-1 US-PATENT-APPL-SN-632111 US-PATENT-CLASS-15-230.16 US-PATENT-CLASS-15-230.17 US-PATENT-CLASS-29-125 US-PATENT-CLASS-428-133 US-PATENT-CLASS-74-572 US-PATENT-4,098,142	N79-11314* c 33 NASA-CASE-NPO-13064-1 US-PATENT-APPL-SN-297436 US-PATENT-CLASS-357-22 US-PATENT-3,860,946	N79-11920* c 76 NASA-CASE-NPO-13918-1 US-PATENT-APPL-SN-706073 US-PATENT-CLASS-156-DIG.64 US-PATENT-CLASS-156-DIG.65 US-PATENT-CLASS-156-DIG.88 US-PATENT-CLASS-156-608 US-PATENT-CLASS-156-617SP US-PATENT-4,121,965
N79-10513*	c 44	NASA-CASE-NPO-13732-1 US-PATENT-APPL-SN-765138 US-PATENT-CLASS-429-13 US-PATENT-CLASS-429-41 US-PATENT-CLASS-429-42 US-PATENT-4,100,331	N79-11315* c 33 NASA-CASE-KSC-11031-1 US-PATENT-APPL-SN-782482 US-PATENT-CLASS-324-102 US-PATENT-CLASS-324-113 US-PATENT-CLASS-324-133 US-PATENT-4,105,966	N79-12061* c 05 NASA-CASE-FRC-10092-1 US-PATENT-APPL-SN-831634 US-PATENT-CLASS-244-48 US-PATENT-CLASS-244-82 US-PATENT-CLASS-244-90R US-PATENT-4,124,180
N79-10693*	c 51	NASA-CASE-MSC-16098-1 US-PATENT-APPL-SN-792088 US-PATENT-CLASS-210-23F US-PATENT-CLASS-210-433M US-PATENT-CLASS-210-96M US-PATENT-4,118,315	N79-11402* c 37 NASA-CASE-MSC-16043-1 US-PATENT-APPL-SN-750792 US-PATENT-CLASS-137-614.06 US-PATENT-CLASS-137-637.05 US-PATENT-CLASS-251-149.9 US-PATENT-CLASS-285-326 US-PATENT-CLASS-285-359 US-PATENT-4,103,712	N79-12221* c 27 NASA-CASE-MSC-12619-2 US-PATENT-APPL-SN-555750 US-PATENT-APPL-SN-786913 US-PATENT-CLASS-244-121 US-PATENT-CLASS-244-158 US-PATENT-CLASS-244-160 US-PATENT-CLASS-428-189 US-PATENT-CLASS-428-212 US-PATENT-CLASS-428-280 US-PATENT-CLASS-428-285 US-PATENT-CLASS-428-286 US-PATENT-CLASS-428-332 US-PATENT-CLASS-428-447 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-77 US-PATENT-CLASS-428-920 US-PATENT-4,124,732
N79-10694*	c 51	NASA-CASE-GSC-12173-1 US-PATENT-APPL-SN-806440 US-PATENT-CLASS-165-2 US-PATENT-CLASS-165-30 US-PATENT-CLASS-195-1.8 US-PATENT-CLASS-219-299 US-PATENT-CLASS-219-302 US-PATENT-CLASS-62-514R US-PATENT-CLASS-62-78 US-PATENT-4,117,881	N79-11403* c 37 NASA-CASE-LEW-12793-1 US-PATENT-APPL-SN-745766 US-PATENT-CLASS-60-39.08 US-PATENT-CLASS-60-39.28R US-PATENT-CLASS-60-39.66 US-PATENT-4,104,873	N79-12321* c 33 NASA-CASE-MFS-23447-1 US-PATENT-APPL-SN-736909 US-PATENT-CLASS-308-194 US-PATENT-CLASS-308-72 US-PATENT-4,105,261
N79-10724*	c 52	NASA-CASE-ARC-10985-1 US-PATENT-APPL-SN-769148 US-PATENT-CLASS-128-2.05R US-PATENT-CLASS-358-111 US-PATENT-CLASS-358-96 US-PATENT-CLASS-364-417 US-PATENT-4,101,961	N79-11404* c 37 NASA-CASE-MFS-23447-1 US-PATENT-APPL-SN-736909 US-PATENT-CLASS-308-194 US-PATENT-CLASS-308-72 US-PATENT-4,105,261	N79-12331* c 33 NASA-CASE-GSC-12190-1 US-PATENT-APPL-SN-817413 US-PATENT-CLASS-357-22 US-PATENT-CLASS-357-23 US-PATENT-CLASS-357-41 US-PATENT-CLASS-357-45 US-PATENT-CLASS-357-55 US-PATENT-4,119,986
N79-10969*	c 89	NASA-CASE-MFS-23675-1 US-PATENT-APPL-SN-820498 US-PATENT-CLASS-350-294 US-PATENT-CLASS-350-55 US-PATENT-4,101,195	N79-11405* c 37 NASA-CASE-NPO-13828-1 US-PATENT-APPL-SN-672636 US-PATENT-CLASS-123-148DC US-PATENT-CLASS-123-148E US-PATENT-CLASS-315-209CD US-PATENT-CLASS-315-209SC US-PATENT-CLASS-315-241R US-PATENT-4,122,816	N79-12359* c 34 NASA-CASE-MSC-12662-1 US-PATENT-APPL-SN-540779 US-PATENT-CLASS-428-109 US-PATENT-CLASS-428-247 US-PATENT-CLASS-428-258 US-PATENT-CLASS-428-259 US-PATENT-4,107,363
N79-11108*	c 18	NASA-CASE-MFS-23579-1 US-PATENT-APPL-SN-829316 US-PATENT-CLASS-228-13 US-PATENT-CLASS-228-15.1 US-PATENT-CLASS-228-173 US-PATENT-CLASS-244-159 US-PATENT-4,122,991	N79-11467* c 44 NASA-CASE-LEW-12819-1 US-PATENT-APPL-SN-803823 US-PATENT-CLASS-136-89CC US-PATENT-CLASS-136-89SJ US-PATENT-CLASS-357-15 US-PATENT-CLASS-357-16 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-65 US-PATENT-CLASS-357-67 US-PATENT-4,104,084	N79-12541* c 44 NASA-CASE-LAR-11729-1 US-PATENT-APPL-SN-856461 US-PATENT-CLASS-73-189 US-PATENT-CLASS-73-194VS US-PATENT-4,122,712
N79-11151*	c 25	NASA-CASE-NPO-13958-1 US-PATENT-APPL-SN-745384 US-PATENT-CLASS-126-91A US-PATENT-CLASS-431-10 US-PATENT-CLASS-431-208 US-PATENT-CLASS-432-223 US-PATENT-CLASS-432-29 US-PATENT-4,104,018	N79-11468* c 44 NASA-CASE-LEW-12775-1 US-PATENT-APPL-SN-799026 US-PATENT-CLASS-136-89 US-PATENT-CLASS-148-188 US-PATENT-CLASS-29-572 US-PATENT-CLASS-427-75 US-PATENT-4,104,091	N79-12584* c 45 NASA-CASE-NPO-14100-1 US-PATENT-APPL-SN-861391 US-PATENT-CLASS-324-20R US-PATENT-CLASS-324-22 US-PATENT-4,122,383
N79-11152*	c 25	NASA-CASE-NPO-13904-1 US-PATENT-APPL-SN-730468 US-PATENT-CLASS-208-10 US-PATENT-CLASS-208-8 US-PATENT-CLASS-302-66 US-PATENT-CLASS-44-51 US-PATENT-4,121,995	N79-11469* c 44 NASA-CASE-MFS-23518-1 US-PATENT-APPL-SN-829390 US-PATENT-CLASS-204-32 US-PATENT-CLASS-204-33 US-PATENT-CLASS-204-37R US-PATENT-CLASS-204-38B US-PATENT-4,104,134	N79-12694* c 52 NASA-CASE-MSC-16258-1 US-PATENT-APPL-SN-853705 US-PATENT-CLASS-210-50 US-PATENT-CLASS-210-60 US-PATENT-CLASS-210-63R US-PATENT-CLASS-423-242 US-PATENT-CLASS-55-73 US-PATENT-4,123,355
N79-11215* #	c 27	NASA-CASE-ARC-11170-1 US-PATENT-APPL-SN-956161	N79-11470* c 44 NASA-CASE-NPO-14126-1 US-PATENT-APPL-SN-838336 US-PATENT-CLASS-204-157.1R US-PATENT-CLASS-250-527 US-PATENT-4,105,517	N79-12890* c 74 NASA-CASE-NPO-13913-1 US-PATENT-APPL-SN-687251 US-PATENT-CLASS-128-2R US-PATENT-CLASS-364-120 US-PATENT-CLASS-364-300 US-PATENT-CLASS-364-415 US-PATENT-CLASS-364-900 US-PATENT-4,122,518
N79-11231*	c 28	NASA-CASE-NPO-13858-1 NASA-CASE-NPO-13859-1 US-PATENT-APPL-SN-740153 US-PATENT-CLASS-102-28R US-PATENT-4,103,619	N79-11471* c 44 NASA-CASE-NPO-13817-1 US-PATENT-APPL-SN-801452 US-PATENT-CLASS-126-270 US-PATENT-CLASS-126-271 US-PATENT-CLASS-350-288 US-PATENT-CLASS-350-299 US-PATENT-4,122,833	N79-13214* c 32 NASA-CASE-LAR-12147-1 US-PATENT-APPL-SN-733825 US-PATENT-CLASS-73-159 US-PATENT-CLASS-73-95 US-PATENT-4,103,550
N79-11246*	c 31	NASA-CASE-LAR-12147-1 US-PATENT-APPL-SN-733825 US-PATENT-CLASS-73-159 US-PATENT-CLASS-73-95 US-PATENT-4,103,550	N79-11472* c 44 NASA-CASE-LEW-12552-2 US-PATENT-APPL-SN-844346 US-PATENT-CLASS-29-572 US-PATENT-CLASS-427-123 US-PATENT-CLASS-427-126 US-PATENT-CLASS-427-261 US-PATENT-CLASS-427-343 US-PATENT-CLASS-427-398A US-PATENT-CLASS-427-399 US-PATENT-CLASS-427-75	N79-13288* c 34 NASA-CASE-NPO-14009-1 US-PATENT-APPL-SN-818917 US-PATENT-CLASS-343-117R US-PATENT-CLASS-343-118 US-PATENT-CLASS-343-7.4 US-PATENT-4,122,454
N79-11264*	c 32	NASA-CASE-MSC-14939-1 US-PATENT-APPL-SN-765165 US-PATENT-CLASS-343-844 US-PATENT-CLASS-343-854 US-PATENT-4,119,972		N79-13288* c 34 NASA-CASE-LEW-12252-1 US-PATENT-APPL-SN-559847 US-PATENT-CLASS-165-169
N79-11265*	c 32	NASA-CASE-GSC-12150-1 US-PATENT-APPL-SN-736286		

			US-PATENT-CLASS-239-127.1				US-PATENT-APPL-SN-782464				US-PATENT-CLASS-126-271
			US-PATENT-CLASS-60-267				US-PATENT-CLASS-329-122				US-PATENT-CLASS-350-292
			US-PATENT-4,107,919				US-PATENT-CLASS-343-14				US-PATENT-CLASS-350-293
N79-13289*	c 34		NASA-CASE-LEW-12441-1				US-PATENT-CLASS-364-458				US-PATENT-CLASS-350-320
			US-PATENT-APPL-SN-559846				US-PATENT-CLASS-364-604				US-PATENT-4,131,336
			US-PATENT-CLASS-165-146				US-PATENT-CLASS-364-728		N79-14749*	c 52	NASA-CASE-NPO-13930-1
			US-PATENT-CLASS-165-169				US-PATENT-4,112,497				US-PATENT-APPL-SN-700467
			US-PATENT-CLASS-239-127.1	N79-14268*	c 32		NASA-CASE-NPO-14019-1				US-PATENT-CLASS-128-214D
			US-PATENT-CLASS-60-267				US-PATENT-APPL-SN-843308				US-PATENT-CLASS-128-272
			US-PATENT-4,108,241				US-PATENT-CLASS-343-100CL				US-PATENT-CLASS-150-1
N79-13364*	c 37		NASA-CASE-LAR-10941-2				US-PATENT-CLASS-343-5CM				US-PATENT-CLASS-195-1.8
			US-PATENT-APPL-SN-395493				US-PATENT-4,132,989				US-PATENT-CLASS-206-439
			US-PATENT-CLASS-228-107	N79-14305*	c 33		NASA-CASE-KSC-11057-1				US-PATENT-CLASS-210-DIG.23
			US-PATENT-CLASS-228-2.5				US-PATENT-APPL-SN-835544				US-PATENT-CLASS-422-41
			US-PATENT-CLASS-29-421E				US-PATENT-CLASS-324-102				US-PATENT-CLASS-422-48
			US-PATENT-4,106,687				US-PATENT-CLASS-324-112				US-PATENT-CLASS-55-15.8
N79-13826*	c 72		NASA-CASE-NPO-13993-1				US-PATENT-CLASS-324-113				US-PATENT-4,132,594
			US-PATENT-APPL-SN-782463				US-PATENT-CLASS-324-133		N79-14750*	c 52	NASA-CASE-GSC-12046-1
			US-PATENT-CLASS-331-94.5L				US-PATENT-CLASS-324-72				US-PATENT-APPL-SN-680015
			US-PATENT-CLASS-331-94.5P				US-PATENT-4,112,357				US-PATENT-CLASS-195-103.5K
			US-PATENT-CLASS-331-94.5PE	N79-14345*	c 35		NASA-CASE-LEW-12661-1				US-PATENT-CLASS-195-103.5L
			US-PATENT-4,107,627				US-PATENT-APPL-SN-837796				US-PATENT-4,132,599
N79-13855*	c 74		NASA-CASE-MFS-23052-2				US-PATENT-CLASS-73-115		N79-14751*	c 52	NASA-CASE-NPO-13935-1
			US-PATENT-APPL-SN-590183				US-PATENT-4,111,041				NASA-CASE-NPO-13944-1
			US-PATENT-APPL-SN-772165	N79-14346*	c 35		NASA-CASE-LEW-12174-2				US-PATENT-APPL-SN-741749
			US-PATENT-CLASS-35-12C				US-PATENT-APPL-SN-667929				US-PATENT-CLASS-128-2V
			US-PATENT-CLASS-35-12N				US-PATENT-APPL-SN-853679				US-PATENT-CLASS-73-633
			US-PATENT-CLASS-358-104				US-PATENT-CLASS-136-202				US-PATENT-CLASS-73-644
			US-PATENT-4,106,218				US-PATENT-CLASS-136-236				US-PATENT-4,130,112
N79-14095*	c 07		NASA-CASE-LEW-13050-1				US-PATENT-4,111,718		N79-14871*	c 71	NASA-CASE-LEW-12658-1
			US-PATENT-APPL-SN-513346	N79-14347*	c 35		NASA-CASE-LAR-12230-1				US-PATENT-APPL-SN-702115
			US-PATENT-CLASS-416-157B				US-PATENT-APPL-SN-835628				US-PATENT-CLASS-181-190
			US-PATENT-CLASS-416-160				US-PATENT-CLASS-73-147				US-PATENT-CLASS-181-213
			US-PATENT-CLASS-416-162				US-PATENT-CLASS-73-4R				US-PATENT-CLASS-181-222
			US-PATENT-CLASS-416-167				US-PATENT-CLASS-73-714				US-PATENT-CLASS-181-293
			US-PATENT-4,124,330				US-PATENT-CLASS-73-721				US-PATENT-4,106,587
N79-14096*	c 07		NASA-CASE-LEW-12389-3				US-PATENT-CLASS-73-756		N79-14891*	c 74	NASA-CASE-GSC-12225-1
			US-PATENT-APPL-SN-552108				US-PATENT-4,111,058				US-PATENT-APPL-SN-823566
			US-PATENT-APPL-SN-753452	N79-14348*	c 35		NASA-CASE-NPO-13569-2				US-PATENT-CLASS-350-157
			US-PATENT-CLASS-137-15.1				US-PATENT-APPL-SN-565162				US-PATENT-4,129,357
			US-PATENT-CLASS-244-54				US-PATENT-APPL-SN-804035		N79-14906*	c 76	NASA-CASE-MFS-23541-1
			US-PATENT-CLASS-415-200				US-PATENT-CLASS-318-573				US-PATENT-APPL-SN-814005
			US-PATENT-CLASS-415-201				US-PATENT-CLASS-318-594				US-PATENT-CLASS-204-192C
			US-PATENT-CLASS-60-226A				US-PATENT-CLASS-318-640				US-PATENT-4,111,775
			US-PATENT-CLASS-60-226R				US-PATENT-4,132,940		N79-15245*	c 33	NASA-CASE-ARC-10975-1
			US-PATENT-CLASS-60-39.31	N79-14349*	c 35		NASA-CASE-LAR-11859-1				US-PATENT-APPL-SN-799832
			US-PATENT-4,132,069				US-PATENT-APPL-SN-861396				US-PATENT-CLASS-250-531
N79-14097*	c 07		NASA-CASE-LEW-12378-1				US-PATENT-CLASS-324-57R				US-PATENT-CLASS-250-540
			US-PATENT-APPL-SN-573029				US-PATENT-4,130,795				US-PATENT-CLASS-250-541
			US-PATENT-CLASS-239-265.39	N79-14362*	c 36		NASA-CASE-GSC-12334-1				US-PATENT-4,130,490
			US-PATENT-CLASS-60-226A				US-PATENT-APPL-SN-856464		N79-16246*	c 35	NASA-CASE-NPO-10872-1
			US-PATENT-4,132,068				US-PATENT-CLASS-324-0.5				US-PATENT-APPL-SN-805549
N79-14108*	c 08		NASA-CASE-LAR-11868-2				US-PATENT-CLASS-331-94				US-PATENT-CLASS-179-100.2CH
			US-PATENT-APPL-SN-651002				US-PATENT-4,128,814				US-PATENT-CLASS-340-174.1M
			US-PATENT-APPL-SN-779429	N79-14382*	c 37		NASA-CASE-LAR-11900-1				US-PATENT-CLASS-346-74MT
			US-PATENT-CLASS-244-218				US-PATENT-APPL-SN-775239				US-PATENT-3,626,114
			US-PATENT-CLASS-244-46				US-PATENT-CLASS-403-105		N79-16678*	c 76	NASA-CASE-NPO-11336-1
			US-PATENT-CLASS-244-90R				US-PATENT-CLASS-416-61				NASA-CASE-NPO-13247-1
			US-PATENT-4,132,375				US-PATENT-CLASS-74-586				US-PATENT-APPL-SN-302913
N79-14156*	c 24		NASA-CASE-GSC-12207-1				US-PATENT-4,111,068				US-PATENT-CLASS-117-107
			US-PATENT-APPL-SN-844344	N79-14383*	c 37		NASA-CASE-NPO-13541-1				US-PATENT-CLASS-117-119
			US-PATENT-CLASS-106-296				US-PATENT-APPL-SN-828262				US-PATENT-CLASS-117-234
			US-PATENT-CLASS-106-84				US-PATENT-CLASS-81-119				US-PATENT-CLASS-117-235
			US-PATENT-CLASS-252-518				US-PATENT-CLASS-81-180B				US-PATENT-CLASS-117-237
			US-PATENT-4,111,851				US-PATENT-CLASS-81-90B				US-PATENT-CLASS-117-239
N79-14169*	c 25		NASA-CASE-ARC-11121-1				US-PATENT-4,130,032				US-PATENT-CLASS-117-240
			US-PATENT-APPL-SN-850507	N79-14398*	c 38		NASA-CASE-MSC-19672-1				US-PATENT-CLASS-148-121
			US-PATENT-CLASS-204-180G				US-PATENT-APPL-SN-696679				US-PATENT-CLASS-148-6
			US-PATENT-CLASS-204-180S				US-PATENT-CLASS-310-326				US-PATENT-CLASS-75-134D
			US-PATENT-CLASS-204-299R				US-PATENT-CLASS-310-336				US-PATENT-3,837,908
			US-PATENT-CLASS-23-230B				US-PATENT-CLASS-73-632		N79-16915*	c 24	NASA-CASE-ARC-11040-1
			US-PATENT-CLASS-424-12				US-PATENT-CLASS-73-641				US-PATENT-APPL-SN-778195
			US-PATENT-4,130,471				US-PATENT-CLASS-73-644				US-PATENT-CLASS-156-331
N79-14213*	c 27		NASA-CASE-NPO-13690-2				US-PATENT-4,122,725				US-PATENT-CLASS-428-117
			US-PATENT-APPL-SN-858766	N79-14526*	c 44		NASA-CASE-NPO-13921-1				US-PATENT-CLASS-428-119
			US-PATENT-CLASS-264-60				US-PATENT-APPL-SN-785257				US-PATENT-CLASS-428-375
			US-PATENT-CLASS-75-203				US-PATENT-CLASS-126-270				US-PATENT-CLASS-428-458
			US-PATENT-CLASS-75-205				US-PATENT-CLASS-126-271				US-PATENT-CLASS-428-73
			US-PATENT-CLASS-75-206				US-PATENT-4,111,184				US-PATENT-4,135,019
			US-PATENT-CLASS-75-212	N79-14527*	c 44		NASA-CASE-HQN-10888-1		N79-17029*	c 31	NASA-CASE-GSC-12168-1
			US-PATENT-CLASS-75-226				US-PATENT-APPL-SN-760057				US-PATENT-APPL-SN-838337
			US-PATENT-4,131,459				US-PATENT-CLASS-188-151A				US-PATENT-CLASS-165-30
N79-14214*	c 27		NASA-CASE-ARC-10892-2				US-PATENT-CLASS-188-269				US-PATENT-CLASS-174-15CA
			US-PATENT-APPL-SN-589172				US-PATENT-CLASS-303-92				US-PATENT-CLASS-250-352
			US-PATENT-APPL-SN-767912				US-PATENT-CLASS-415-9				US-PATENT-CLASS-62-514R
			US-PATENT-CLASS-427-294				US-PATENT-CLASS-416-2				US-PATENT-4,134,447
			US-PATENT-CLASS-427-41				US-PATENT-CLASS-74-572		N79-17133*	c 33	NASA-CASE-MFS-23659-1
			US-PATENT-CLASS-428-411				US-PATENT-4,132,130				US-PATENT-APPL-SN-782462
			US-PATENT-4,132,829	N79-14528*	c 44		NASA-CASE-LEW-12236-2				US-PATENT-CLASS-323-44F
N79-14228*	c 28		NASA-CASE-NPO-10866-1				US-PATENT-APPL-SN-760771				US-PATENT-CLASS-336-DIG.1
			US-PATENT-APPL-SN-849274				US-PATENT-APPL-SN-899123				US-PATENT-4,135,127
			US-PATENT-CLASS-149-19.9				US-PATENT-CLASS-136-89SJ		N79-17192*	c 35	NASA-CASE-LEW-11583-1
			US-PATENT-CLASS-149-19.92				US-PATENT-CLASS-357-30				US-PATENT-APPL-SN-414042
			US-PATENT-CLASS-149-20				US-PATENT-4,131,486				US-PATENT-CLASS-55-118
			US-PATENT-4,111,729	N79-14529*	c 44		NASA-CASE-NPO-13579-4				US-PATENT-CLASS-55-122
N79-14267*	c 32		NASA-CASE-NPO-13982-1				US-PATENT-APPL-SN-906297				US-PATENT-CLASS-55-127

			US-PATENT-CLASS-55-155				US-PATENT-APPL-SN-824024	N79-20857*	c 74	NASA-CASE-GSC-12263-1
			US-PATENT-CLASS-55-241				US-PATENT-CLASS-126-271			US-PATENT-APPL-SN-817415
			US-PATENT-CLASS-55-242				US-PATENT-CLASS-165-105			US-PATENT-CLASS-250-363R
			US-PATENT-CLASS-55-360				US-PATENT-CLASS-60-508			US-PATENT-CLASS-250-483
			US-PATENT-CLASS-55-407				US-PATENT-CLASS-60-572			US-PATENT-4,142,101
			US-PATENT-4,134,744				US-PATENT-CLASS-60-641	N79-21083*	c 09	NASA-CASE-LAR-10135-1
N79-17288*	c 43		NASA-CASE-NPO-13691-1	N79-18444*	c 44		US-PATENT-4,135,367			US-PATENT-APPL-SN-648034
			US-PATENT-APPL-SN-664091				NASA-CASE-LEW-12819-2			US-PATENT-CLASS-73-147
			US-PATENT-CLASS-250-226				US-PATENT-APPL-SN-863770			US-PATENT-3,453,878
			US-PATENT-CLASS-356-300				US-PATENT-CLASS-148-6.3	N79-21084*	c 09	NASA-CASE-XLE-03186-1
			US-PATENT-CLASS-356-407				US-PATENT-CLASS-29-572			US-PATENT-APPL-SN-200770
			US-PATENT-CLASS-356-416				US-PATENT-CLASS-29-578			US-PATENT-CLASS-89-8
			US-PATENT-4,134,683				US-PATENT-CLASS-29-591			US-PATENT-3,224,337
N79-17313*	c 44		NASA-CASE-LEW-12358-1	N79-18580*	c 52		US-PATENT-4,135,290	N79-21123*	c 20	NASA-CASE-XMF-06884-1
			US-PATENT-APPL-SN-776146				NASA-CASE-ARC-11035-1			US-PATENT-APPL-SN-579300
			US-PATENT-CLASS-429-101				US-PATENT-APPL-SN-758721			US-PATENT-CLASS-164-105
			US-PATENT-CLASS-429-33				US-PATENT-CLASS-128-2.052			US-PATENT-3,485,290
			US-PATENT-4,133,941				US-PATENT-CLASS-128-2.1A	N79-21124*	c 20	NASA-CASE-XMF-05964-1
N79-17314*	c 44		NASA-CASE-NPO-13652-1				US-PATENT-CLASS-128-2V			US-PATENT-APPL-SN-578397
			US-PATENT-APPL-SN-809890				US-PATENT-4,109,644			US-PATENT-CLASS-60-243
			US-PATENT-CLASS-136-89CC	N79-19186*	c 32		NASA-CASE-WOO-00428-1			US-PATENT-3,390,528
			US-PATENT-CLASS-136-89P				US-PATENT-APPL-SN-112999	N79-21125*	c 20	NASA-CASE-XMF-04592-1
			US-PATENT-CLASS-29-572				US-PATENT-CLASS-117-35			NASA-CASE-XMF-04593-1
			US-PATENT-4,133,697				US-PATENT-3,173,801			US-PATENT-APPL-SN-579376
N79-17747*	c 85		NASA-CASE-NPO-13847-2	N79-19195* #	c 32		NASA-CASE-NPO-14525-1			US-PATENT-CLASS-60-39.74
			NASA-CASE-NPO-13848-2				US-PATENT-APPL-SN-017885			US-PATENT-3,397,537
			US-PATENT-APPL-SN-750798	N79-19447*	c 44		NASA-CASE-XGS-00829-1	N79-21190*	c 27	NASA-CASE-XMF-02526-1
			US-PATENT-CLASS-162-14				US-PATENT-APPL-SN-286824			NASA-CASE-XMF-02527-1
			US-PATENT-CLASS-162-29				US-PATENT-CLASS-269-153			NASA-CASE-XMF-02783-1
			US-PATENT-CLASS-210-28				US-PATENT-3,262,694			US-PATENT-APPL-SN-483817
			US-PATENT-CLASS-210-40	N79-20179*	c 20		NASA-CASE-LEW-12780-1			US-PATENT-CLASS-260-2
			US-PATENT-CLASS-210-45				US-PATENT-APPL-SN-891370			US-PATENT-3,311,571
			US-PATENT-CLASS-210-54				US-PATENT-CLASS-323-15	N79-21191*	c 27	NASA-CASE-XMF-06900-1
			US-PATENT-CLASS-210-66				US-PATENT-CLASS-323-20			US-PATENT-APPL-SN-554959
			US-PATENT-CLASS-210-67				US-PATENT-4,143,314			US-PATENT-CLASS-260-67
			US-PATENT-CLASS-210-70	N79-20296*	c 32		NASA-CASE-GSC-12148-1			US-PATENT-3,419,531
			US-PATENT-CLASS-210-73R				US-PATENT-APPL-SN-786322	N79-21225*	c 31	NASA-CASE-XLE-02367-1
			US-PATENT-4,134,786				US-PATENT-CLASS-325-58			US-PATENT-APPL-SN-400857
N79-17847*	c 05		NASA-CASE-ARC-11045-1				US-PATENT-CLASS-325-63			US-PATENT-CLASS-222-131
			US-PATENT-APPL-SN-818916				US-PATENT-CLASS-343-179			US-PATENT-3,215,313
			US-PATENT-CLASS-416-132R				US-PATENT-4,140,972	N79-21226*	c 31	NASA-CASE-MFS-10946-1
			US-PATENT-CLASS-416-138	N79-20297*	c 32		NASA-CASE-MS-16253-1			US-PATENT-APPL-SN-581843
			US-PATENT-CLASS-416-51				US-PATENT-APPL-SN-831631			US-PATENT-CLASS-156-52
			US-PATENT-CLASS-416-88				US-PATENT-CLASS-358-109			US-PATENT-3,481,802
			US-PATENT-CLASS-416-89				US-PATENT-CLASS-358-81	N79-21227*	c 31	NASA-CASE-XMF-05757-1
			US-PATENT-4,137,010				US-PATENT-CLASS-364-713			US-PATENT-APPL-SN-562558
N79-17916*	c 24		NASA-CASE-LEW-11930-4				US-PATENT-4,139,862			US-PATENT-CLASS-117-43
			US-PATENT-APPL-SN-860406	N79-20314*	c 33		NASA-CASE-GSC-12138-1			US-PATENT-3,511,680
			US-PATENT-CLASS-252-12.2				US-PATENT-APPL-SN-779871	N79-21264*	c 33	NASA-CASE-XMF-05373-1
			US-PATENT-CLASS-308-DIG.8				US-PATENT-CLASS-310-231			US-PATENT-APPL-SN-474815
			US-PATENT-CLASS-308-DIG.9				US-PATENT-CLASS-310-46			US-PATENT-CLASS-335-216
			US-PATENT-CLASS-308-168				US-PATENT-CLASS-310-82			US-PATENT-3,310,765
			US-PATENT-CLASS-308-171				US-PATENT-4,142,119	N79-21265*	c 33	NASA-CASE-XNP-02899-1
			US-PATENT-CLASS-308-78	N79-20335*	c 34		NASA-CASE-NPO-14130-1			US-PATENT-APPL-SN-472643
			US-PATENT-CLASS-308-87R				US-PATENT-APPL-SN-847278			US-PATENT-CLASS-317-245
			US-PATENT-CLASS-427-292				US-PATENT-CLASS-415-1			US-PATENT-3,356,917
			US-PATENT-CLASS-427-327				US-PATENT-CLASS-415-143	N79-21345*	c 37	NASA-CASE-XMS-01295-1
			US-PATENT-CLASS-427-328				US-PATENT-CLASS-60-645			US-PATENT-APPL-SN-77869
			US-PATENT-CLASS-427-34				US-PATENT-CLASS-60-649			US-PATENT-CLASS-55-159
			US-PATENT-CLASS-427-355				US-PATENT-4,141,219			US-PATENT-3,131,040
			US-PATENT-CLASS-427-376B	N79-20336*	c 34		NASA-CASE-LEW-11981-2	N79-21750*	c 52	NASA-CASE-MS-12239-1
			US-PATENT-CLASS-427-376C				US-PATENT-APPL-SN-829315			US-PATENT-APPL-SN-292340
			US-PATENT-4,136,211				US-PATENT-CLASS-250-352			US-PATENT-CLASS-128-2.07
N79-18052*	c 27		NASA-CASE-ARC-10915-2				US-PATENT-CLASS-313-22			US-PATENT-3,396,719
			US-PATENT-APPL-SN-634304				US-PATENT-CLASS-313-35	N79-21910*	c 76	NASA-CASE-XLE-02545-1
			US-PATENT-APPL-SN-779883				US-PATENT-CLASS-62-268			US-PATENT-APPL-SN-430748
			US-PATENT-CLASS-427-40				US-PATENT-CLASS-62-376			US-PATENT-CLASS-156-17
			US-PATENT-CLASS-427-41				US-PATENT-CLASS-62-514R			US-PATENT-3,429,756
			US-PATENT-CLASS-428-412	N79-20377*	c 37		US-PATENT-4,141,224	N79-22235*	c 25	NASA-CASE-LEW-12513-1
			US-PATENT-CLASS-428-447				NASA-CASE-MS-19514-1			US-PATENT-APPL-SN-772167
			US-PATENT-CLASS-428-451				US-PATENT-APPL-SN-772168			US-PATENT-CLASS-195-103.5R
			US-PATENT-4,137,365				US-PATENT-CLASS-74-674			US-PATENT-CLASS-195-127
N79-18193*	c 33		NASA-CASE-KSC-10899-1				US-PATENT-CLASS-74-705			US-PATENT-CLASS-204-1T
			US-PATENT-APPL-SN-814004				US-PATENT-CLASS-74-764			US-PATENT-CLASS-2041-195B
			US-PATENT-CLASS-324-127				US-PATENT-4,141,259			US-PATENT-4,145,255
			US-PATENT-CLASS-324-133	N79-20751*	c 60		NASA-CASE-NPO-13676-1	N79-22271*	c 26	NASA-CASE-LEW-12542-2
			US-PATENT-CLASS-324-52				US-PATENT-APPL-SN-779415			US-PATENT-APPL-SN-803822
			US-PATENT-CLASS-340-650				US-PATENT-CLASS-340-347DD			US-PATENT-APPL-SN-860405
			US-PATENT-CLASS-340-664				US-PATENT-CLASS-364-900			US-PATENT-CLASS-148-12.4
			US-PATENT-4,110,683				US-PATENT-4,139,839			US-PATENT-CLASS-148-12F
N79-18296*	c 35		NASA-CASE-LAR-12275-1	N79-20827*	c 71		NASA-CASE-NPO-14005-1			US-PATENT-CLASS-148-2
			US-PATENT-APPL-SN-885065				US-PATENT-APPL-SN-812447			US-PATENT-4,146,409
			US-PATENT-CLASS-356-28				US-PATENT-CLASS-310-20	N79-22300*	c 27	NASA-CASE-ARC-11060-1
			US-PATENT-CLASS-358-107				US-PATENT-CLASS-310-26			US-PATENT-APPL-SN-843090
			US-PATENT-4,135,817				US-PATENT-CLASS-310-322			US-PATENT-CLASS-260-307G
N79-18307*	c 36		NASA-CASE-LAR-12183-1				US-PATENT-CLASS-310-334			US-PATENT-CLASS-528-401
			US-PATENT-CLASS-331-94.5G				US-PATENT-CLASS-318-116			US-PATENT-CLASS-528-422
			US-PATENT-CLASS-331-94.5P				US-PATENT-CLASS-60-721			US-PATENT-4,145,524
			US-PATENT-CLASS-788-704				US-PATENT-CLASS-73-505	N79-22373*	c 33	NASA-CASE-KSC-11008-1
			US-PATENT-4,110,703				US-PATENT-4,139,806			US-PATENT-APPL-SN-780729
N79-18318*	c 37		NASA-CASE-LEW-12131-1	N79-20856*	c 74		NASA-CASE-NPO-14174-1			US-PATENT-CLASS-324-123C
			US-PATENT-APPL-SN-801290				US-PATENT-APPL-SN-876441			US-PATENT-CLASS-324-99D
			US-PATENT-CLASS-415-174				US-PATENT-CLASS-250-237G			US-PATENT-CLASS-330-2
			US-PATENT-CLASS-415-200				US-PATENT-CLASS-354-77			US-PATENT-CLASS-330-51
			US-PATENT-4,135,851				US-PATENT-CLASS-356-129			US-PATENT-CLASS-330-86
N79-18443*	c 44		NASA-CASE-NPO-14058-1				US-PATENT-4,139,291			US-PATENT-4,109,213

N79-22474*	c 37	NASA-CASE-MFS-23646-1 US-PATENT-APPL-SN-891372 US-PATENT-CLASS-138-96R US-PATENT-CLASS-220-266 US-PATENT-CLASS-239-265.15 US-PATENT-CLASS-239-288 US-PATENT-CLASS-277-192 US-PATENT-4,146,180	N79-24285*	c 34	NASA-CASE-MSC-16841-1 US-PATENT-APPL-SN-893382 US-PATENT-CLASS-210-108 US-PATENT-CLASS-210-142 US-PATENT-CLASS-73-714 US-PATENT-4,151,086	N79-25482*	c 44	NASA-CASE-NPO-14199-1 NASA-CASE-NPO-14200-1 US-PATENT-APPL-SN-891243 US-PATENT-CLASS-136-89CA US-PATENT-CLASS-136-89CC US-PATENT-CLASS-136-89PC US-PATENT-CLASS-136-89SJ US-PATENT-4,153,476
N79-22475*	c 37	NASA-CASE-LEW-11873-1 US-PATENT-APPL-SN-814006 US-PATENT-CLASS-277-62 US-PATENT-CLASS-277-96.1 US-PATENT-4,145,058	N79-24431*	c 44	NASA-CASE-NPO-13652-2 US-PATENT-APPL-SN-848794 US-PATENT-CLASS-228-5.1 US-PATENT-CLASS-228-6 US-PATENT-CLASS-29-57.4 US-PATENT-CLASS-29-572 US-PATENT-CLASS-29-739 US-PATENT-CLASS-29-809 US-PATENT-4,149,665	N79-26075*	c 12	NASA-CASE-MFS-23460-1 US-PATENT-APPL-SN-746578 US-PATENT-CLASS-13-20 US-PATENT-CLASS-13-22 US-PATENT-CLASS-13-24 US-PATENT-CLASS-219-410 US-PATENT-4,158,742
N79-22537*	c 39	NASA-CASE-LAR-12027-1 US-PATENT-APPL-SN-889670 US-PATENT-CLASS-73-770 US-PATENT-CLASS-73-810 US-PATENT-4,145,933	N79-24432*	c 44	NASA-CASE-NPO-13579-3 US-PATENT-APPL-SN-762363 US-PATENT-CLASS-126-270 US-PATENT-CLASS-264-1 US-PATENT-CLASS-264-33 US-PATENT-CLASS-264-34 US-PATENT-CLASS-264-35 US-PATENT-CLASS-264-510 US-PATENT-CLASS-264-516 US-PATENT-CLASS-264-70 US-PATENT-CLASS-264-71 US-PATENT-CLASS-350-292 US-PATENT-CLASS-350-294 US-PATENT-CLASS-350-296 US-PATENT-CLASS-405-229 US-PATENT-CLASS-405-263 US-PATENT-4,149,817	N79-26100*	c 15	NASA-CASE-ARC-11104-1 US-PATENT-APPL-SN-854920 US-PATENT-CLASS-244-121 US-PATENT-CLASS-260-37EP US-PATENT-CLASS-260-830S US-PATENT-CLASS-264-102 US-PATENT-CLASS-264-145 US-PATENT-CLASS-264-151 US-PATENT-CLASS-264-175 US-PATENT-CLASS-264-236 US-PATENT-CLASS-428-220 US-PATENT-CLASS-428-413 US-PATENT-CLASS-428-414 US-PATENT-CLASS-428-418 US-PATENT-CLASS-428-421 US-PATENT-CLASS-428-920 US-PATENT-4,156,752
N79-22679*	c 46	NASA-CASE-NPO-14112-1 US-PATENT-APPL-SN-826326 US-PATENT-CLASS-102-21.6 US-PATENT-CLASS-166-63 US-PATENT-CLASS-175-1 US-PATENT-CLASS-181-106 US-PATENT-CLASS-181-117 US-PATENT-4,148,375	N79-24433*	c 44	NASA-CASE-NPO-13579-2 US-PATENT-APPL-SN-762362 US-PATENT-CLASS-126-271 US-PATENT-CLASS-126-400 US-PATENT-CLASS-237-1A US-PATENT-CLASS-350-288 US-PATENT-CLASS-350-299 US-PATENT-4,149,521	N79-26372*	c 35	NASA-CASE-LAR-11889-1 US-PATENT-APPL-SN-662182 US-PATENT-CLASS-308-10 US-PATENT-CLASS-73-178R US-PATENT-4,156,548
N79-23097*	c 08	NASA-CASE-LAR-12215-1 US-PATENT-APPL-SN-858762 US-PATENT-CLASS-244-17.13 US-PATENT-CLASS-244-195 US-PATENT-CLASS-244-83G US-PATENT-CLASS-318-585 US-PATENT-CLASS-318-616 US-PATENT-CLASS-364-434 US-PATENT-4,148,452	N79-24651*	c 54	NASA-CASE-ARC-11058-2 US-PATENT-APPL-SN-753965 US-PATENT-APPL-SN-883094 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-285-235 US-PATENT-4,091,464 US-PATENT-4,151,612	N79-26439*	c 43	NASA-CASE-MFS-23726-1 US-PATENT-APPL-SN-848418 US-PATENT-CLASS-105-161 US-PATENT-CLASS-299-1 US-PATENT-CLASS-33-1N US-PATENT-CLASS-33-1Q US-PATENT-CLASS-33-174L US-PATENT-CLASS-364-560 US-PATENT-4,156,971
N79-23310*	c 32	NASA-CASE-KSC-11023-1 US-PATENT-APPL-SN-918533 US-PATENT-CLASS-179-1MN US-PATENT-CLASS-179-27CA US-PATENT-CLASS-179-84VF US-PATENT-4,153,818	N79-24652*	c 54	NASA-CASE-NPO-13906-1 US-PATENT-APPL-SN-837259 US-PATENT-CLASS-3-1.1 US-PATENT-CLASS-3-12.5 US-PATENT-CLASS-414-6 US-PATENT-4,149,278	N79-26474*	c 44	NASA-CASE-LEW-13150-1 US-PATENT-APPL-SN-914260 US-PATENT-CLASS-429-101 US-PATENT-CLASS-429-15 US-PATENT-4,159,366
N79-23345*	c 33	NASA-CASE-FRC-10116-1 US-PATENT-APPL-SN-885049 US-PATENT-CLASS-323-22T US-PATENT-4,151,456	N79-24976*	c 05	NASA-CASE-LEW-11890-1 US-PATENT-APPL-SN-891244 US-PATENT-CLASS-137-15.1 US-PATENT-CLASS-244-53B US-PATENT-4,154,256	N79-26475*	c 44	NASA-CASE-MFS-23540-1 US-PATENT-APPL-SN-863773 US-PATENT-CLASS-29-572 US-PATENT-CLASS-29-577 US-PATENT-CLASS-29-578 US-PATENT-CLASS-29-580 US-PATENT-CLASS-357-45 US-PATENT-4,156,309
N79-23481*	c 44	NASA-CASE-MFS-23349-1 US-PATENT-APPL-SN-823061 US-PATENT-CLASS-126-270 US-PATENT-CLASS-126-271 US-PATENT-4,148,295	N79-25142*	c 24	NASA-CASE-MSC-12737-1 US-PATENT-APPL-SN-788045 US-PATENT-CLASS-102-105 US-PATENT-CLASS-244-121 US-PATENT-CLASS-244-163 US-PATENT-CLASS-427-350 US-PATENT-CLASS-427-372A US-PATENT-CLASS-428-137 US-PATENT-CLASS-428-282 US-PATENT-CLASS-428-290 US-PATENT-CLASS-428-332 US-PATENT-CLASS-428-447 US-PATENT-CLASS-428-920 US-PATENT-4,151,800	N79-26771*	c 52	NASA-CASE-ARC-10994-2 US-PATENT-APPL-SN-759965 US-PATENT-CLASS-128-660 US-PATENT-CLASS-73-626 US-PATENT-4,154,230
N79-23555*	c 46	NASA-CASE-NPO-14255-1 US-PATENT-APPL-SN-830458 US-PATENT-CLASS-181-115 US-PATENT-CLASS-181-120 US-PATENT-CLASS-340-12R US-PATENT-4,153,134	N79-25143*	c 24	NASA-CASE-GSC-11577-3 US-PATENT-APPL-SN-322997 US-PATENT-APPL-SN-506803 US-PATENT-APPL-SN-645502 US-PATENT-CLASS-156-89 US-PATENT-CLASS-220-2.2 US-PATENT-CLASS-65-43 US-PATENT-3,859,714 US-PATENT-4,155,475	N79-26772*	c 52	NASA-CASE-KSC-11069-1 US-PATENT-APPL-SN-876438 US-PATENT-CLASS-3-1.9 US-PATENT-CLASS-3-12 US-PATENT-CLASS-3-2 US-PATENT-4,158,895
N79-23753*	c 71	NASA-CASE-NPO-14134-1 US-PATENT-APPL-SN-861392 US-PATENT-CLASS-179-1DM US-PATENT-CLASS-179-1MF US-PATENT-CLASS-181-148 US-PATENT-CLASS-340-8LF US-PATENT-4,149,034	N79-25443*	c 43	NASA-CASE-MFS-23720-3 US-PATENT-APPL-SN-848420 US-PATENT-CLASS-73-12 US-PATENT-CLASS-73-82 US-PATENT-4,154,084	N79-27836*	c 52	NASA-CASE-NPO-13910-1 US-PATENT-APPL-SN-712270 US-PATENT-CLASS-128-329R US-PATENT-CLASS-128-639 US-PATENT-4,154,228
N79-23798*	c 76	NASA-CASE-NPO-13969-1 US-PATENT-APPL-SN-820499 US-PATENT-CLASS-156-DIG.6-8 US-PATENT-CLASS-156-617SP US-PATENT-CLASS-423-345 US-PATENT-4,152,194	N79-25481*	c 44	NASA-CASE-LEW-12972-1 US-PATENT-APPL-SN-897829 US-PATENT-CLASS-429-253 US-PATENT-CLASS-526-7 US-PATENT-CLASS-526-9 US-PATENT-4,154,912	N79-28253*	c 25	NASA-CASE-NPO-13650-1 US-PATENT-APPL-SN-704468 US-PATENT-CLASS-118-49 US-PATENT-CLASS-23-252R US-PATENT-CLASS-248 US-PATENT-CLASS-253 US-PATENT-CLASS-337 US-PATENT-CLASS-349 US-PATENT-CLASS-423-33.5 US-PATENT-CLASS-427-95 US-PATENT-4,033,286
N79-24062*	c 24	NASA-CASE-ARC-11169-1 US-PATENT-APPL-SN-940688 US-PATENT-CLASS-428-366 US-PATENT-4,148,962	N79-25482*	c 27	NASA-CASE-LEW-12053-2 US-PATENT-APPL-SN-796263 US-PATENT-CLASS-260-37N US-PATENT-CLASS-260-42 US-PATENT-CLASS-260-53 US-PATENT-CLASS-528-126 US-PATENT-CLASS-528-127 US-PATENT-CLASS-528-128 US-PATENT-CLASS-528-221 US-PATENT-CLASS-528-223			
N79-24073*	c 25	NASA-CASE-LAR-11922-1 US-PATENT-APPL-SN-856460 US-PATENT-CLASS-195-127 US-PATENT-CLASS-204-195B US-PATENT-4,149,938						
N79-24203*	c 32	NASA-CASE-LAR-12375-1 US-PATENT-APPL-SN-900842 US-PATENT-CLASS-73-647 US-PATENT-CLASS-73-724 US-PATENT-4,149,423						
N79-24210*	c 32	NASA-CASE-NPO-13641-1 US-PATENT-APPL-SN-777983 US-PATENT-CLASS-343-100TD US-PATENT-4,148,031						
N79-24254*	c 33	NASA-CASE-NPO-14000-1 US-PATENT-APPL-SN-876431 US-PATENT-CLASS-307-82 US-PATENT-CLASS-363-56 US-PATENT-CLASS-363-71 US-PATENT-CLASS-363-97 US-PATENT-4,150,425						
N79-24257*	c 33	NASA-CASE-NPO-14056-1 US-PATENT-APPL-SN-833637						

				US-PATENT-CLASS-528-225	N79-33316*	c 27	.....	NASA-CASE-LAR-12054-1	N80-10799*	c 54	.....	NASA-CASE-MS-16182-1
				US-PATENT-CLASS-528-227				US-PATENT-APPL-SN-839963				US-PATENT-APPL-SN-780938
				US-PATENT-CLASS-528-229				US-PATENT-CLASS-264-137				US-PATENT-CLASS-128-142R
				US-PATENT-CLASS-528-331				US-PATENT-CLASS-428-474				US-PATENT-CLASS-128-191R
				US-PATENT-CLASS-528-336				US-PATENT-CLASS-528-229				US-PATENT-CLASS-128-212
				US-PATENT-CLASS-528-337				US-PATENT-4,166,170				US-PATENT-4,168,706
				US-PATENT-CLASS-528-338	N79-33392*	c 33	.....	NASA-CASE-XMF-04494-1	N80-14107*	c 05	.....	NASA-CASE-ARC-11106-1
				US-PATENT-CLASS-528-342				US-PATENT-APPL-SN-547643				US-PATENT-APPL-SN-831633
				US-PATENT-CLASS-544-193				US-PATENT-CLASS-200-83				US-PATENT-CLASS-415-199
				US-PATENT-4,159,262				US-PATENT-3,378,657				US-PATENT-CLASS-416-228
N79-28342*	c 28	.....		NASA-CASE-NPO-14260-1	N79-33393*	c 33	.....	NASA-CASE-XMS-01244-1	N80-14183*	c 18	.....	NASA-CASE-GSC-12331-1
				US-PATENT-APPL-SN-861390				US-PATENT-APPL-SN-20370				US-PATENT-APPL-SN-943088
				US-PATENT-CLASS-149-19.4				US-PATENT-CLASS-200-114				US-PATENT-CLASS-343-880
				US-PATENT-CLASS-149-19.9				US-PATENT-3,123,692				US-PATENT-CLASS-343-883
				US-PATENT-CLASS-149-20	N79-33449*	c 35	.....	NASA-CASE-XGS-01245-1				US-PATENT-CLASS-343-883
				US-PATENT-4,158,583				US-PATENT-APPL-SN-134619				US-PATENT-4,176,360
N79-28370*	c 31	.....		NASA-CASE-MFS-23721-1				US-PATENT-CLASS-338-18	N80-14188*	c 20	.....	NASA-CASE-XLE-02062-1
				US-PATENT-APPL-SN-847277				US-PATENT-3,119,086				US-PATENT-APPL-SN-545793
				US-PATENT-CLASS-343-14	N79-33450*	c 35	.....	NASA-CASE-XGS-01293-1				US-PATENT-CLASS-60-203
				US-PATENT-CLASS-343-5NA				US-PATENT-APPL-SN-150690				US-PATENT-CLASS-60-259
				US-PATENT-4,161,731				US-PATENT-CLASS-73-400				US-PATENT-4,171,615
N79-28415*	c 33	.....		NASA-CASE-MS-16697-1				US-PATENT-3,190,124	N80-14229*	c 26	.....	NASA-CASE-NPO-14474-1
				US-PATENT-APPL-SN-885067				US-PATENT-3,190,124				US-PATENT-APPL-SN-918537
				US-PATENT-CLASS-307-119	N79-33467*	c 37	.....	NASA-CASE-XMS-01077-1				US-PATENT-CLASS-423-149
				US-PATENT-CLASS-307-98				US-PATENT-APPL-SN-228049				US-PATENT-CLASS-423-293
				US-PATENT-CLASS-361-170				US-PATENT-CLASS-312-319				US-PATENT-CLASS-423-348
				US-PATENT-4,161,661	N79-33468*	c 37	.....	NASA-CASE-HQN-00573-1				US-PATENT-CLASS-423-417
N79-28416*	c 33	.....		NASA-CASE-GSC-12171-1				US-PATENT-APPL-SN-129379				US-PATENT-CLASS-423-625
				US-PATENT-APPL-SN-878542				US-PATENT-CLASS-137-14				US-PATENT-4,172,883
				US-PATENT-CLASS-343-909	N79-33469*	c 37	.....	NASA-CASE-XGS-01286-1	N80-14281*	c 32	.....	NASA-CASE-NPO-13830-1
				US-PATENT-4,160,254				US-PATENT-APPL-SN-142583				US-PATENT-APPL-SN-703905
N79-28527*	c 35	.....		NASA-CASE-NPO-13953-1				US-PATENT-CLASS-251-172				US-PATENT-APPL-SN-834257
				US-PATENT-APPL-SN-880727				US-PATENT-CLASS-251-172				US-PATENT-CLASS-333-81R
				US-PATENT-CLASS-356-237				US-PATENT-3,233,862				US-PATENT-CLASS-343-18A
				US-PATENT-CLASS-356-404	N79-34011*	c 74	.....	NASA-CASE-NPO-14066-1				US-PATENT-CLASS-343-909
				US-PATENT-4,160,601				US-PATENT-APPL-SN-827464				US-PATENT-4,164,718
N79-28549*	c 37	.....		NASA-CASE-GSC-12297-1				US-PATENT-CLASS-250-216	N80-14330*	c 33	.....	NASA-CASE-NPO-10857-1
				US-PATENT-APPL-SN-880838				US-PATENT-CLASS-250-551				US-PATENT-APPL-SN-888362
				US-PATENT-CLASS-165-105				US-PATENT-4,166,959				US-PATENT-CLASS-315-145
				US-PATENT-CLASS-357-74	N80-10278*	c 20	.....	NASA-CASE-MFS-23642-1				US-PATENT-CLASS-315-260
				US-PATENT-CLASS-357-79				US-PATENT-APPL-SN-923758				US-PATENT-CLASS-315-334
				US-PATENT-CLASS-357-81				US-PATENT-CLASS-137-177				US-PATENT-3,635,537
				US-PATENT-CLASS-357-82				US-PATENT-CLASS-137-209	N80-14332*	c 33	.....	NASA-CASE-NPO-14350-1
				US-PATENT-CLASS-357-83				US-PATENT-CLASS-137-574				US-PATENT-APPL-SN-921627
				US-PATENT-4,161,747				US-PATENT-CLASS-137-576				US-PATENT-CLASS-250-310
N79-28550*	c 37	.....		NASA-CASE-GSC-12274-1				US-PATENT-CLASS-137-590				US-PATENT-CLASS-250-492A
				US-PATENT-APPL-SN-909100				US-PATENT-CLASS-244-135R				US-PATENT-CLASS-324-158T
				US-PATENT-CLASS-251-7				US-PATENT-4,168,718				US-PATENT-4,172,228
				US-PATENT-CLASS-72-436	N80-10358*	c 27	.....	NASA-CASE-MS-14903-2	N80-14371*	c 35	.....	NASA-CASE-LAR-11690-1
				US-PATENT-CLASS-72-451				US-PATENT-APPL-SN-706424				US-PATENT-APPL-SN-928129
				US-PATENT-CLASS-72-470				US-PATENT-APPL-SN-907435				US-PATENT-CLASS-73-655
				US-PATENT-4,159,634				US-PATENT-CLASS-260-926				US-PATENT-CLASS-73-661
N79-28551*	c 37	.....		NASA-CASE-ARC-11052-1				US-PATENT-4,092,466				US-PATENT-4,171,645
				US-PATENT-APPL-SN-826202				US-PATENT-4,168,287	N80-14384*	c 36	.....	NASA-CASE-GSC-12237-1
				US-PATENT-CLASS-414-4	N80-10374*	c 28	.....	NASA-CASE-NPO-13849-1				US-PATENT-APPL-SN-837795
				US-PATENT-4,160,508				NASA-CASE-NPO-13907-1				US-PATENT-CLASS-331-94.5C
N79-31228*	c 09	.....		NASA-CASE-LAR-12149-2				US-PATENT-APPL-SN-668783				US-PATENT-CLASS-331-94.5P
				US-PATENT-APPL-SN-829314				US-PATENT-CLASS-123-DIG.12				US-PATENT-4,173,001
				US-PATENT-APPL-SN-928131				US-PATENT-CLASS-123-179R	N80-14395*	c 37	.....	NASA-CASE-XNP-08835-1
				US-PATENT-CLASS-35-12E				US-PATENT-CLASS-123-3				US-PATENT-APPL-SN-534931
				US-PATENT-CLASS-35-12H				US-PATENT-CLASS-23-288R				US-PATENT-CLASS-204-224
				US-PATENT-4,164,079				US-PATENT-CLASS-423-650				US-PATENT-3,352,774
N79-31347*	c 24	.....		NASA-CASE-GSC-12303-1				US-PATENT-CLASS-48-DIG.8	N80-14397*	c 37	.....	NASA-CASE-MFS-23284-1
				US-PATENT-APPL-SN-862880				US-PATENT-CLASS-48-10-3				US-PATENT-APPL-SN-753103
				US-PATENT-CLASS-106-74				US-PATENT-CLASS-48-102A				US-PATENT-CLASS-204-180G
				US-PATENT-CLASS-106-84				US-PATENT-CLASS-48-107				US-PATENT-CLASS-204-299R
				US-PATENT-4,162,169				US-PATENT-CLASS-48-117				US-PATENT-4,040,940
N79-31523*	c 34	.....		NASA-CASE-GSC-12253-1				US-PATENT-CLASS-48-61	N80-14398*	c 37	.....	NASA-CASE-GSC-12322-1
				US-PATENT-APPL-SN-853677				US-PATENT-CLASS-60-300				US-PATENT-APPL-SN-907436
				US-PATENT-CLASS-165-105				US-PATENT-CLASS-60-606				US-PATENT-CLASS-244-161
				US-PATENT-CLASS-165-32				US-PATENT-4,033,133				US-PATENT-CLASS-269-156
				US-PATENT-CLASS-244-1R	N80-10494*	c 37	.....	NASA-CASE-NPO-14384-1				US-PATENT-CLASS-294-113
				US-PATENT-CLASS-244-1B3				US-PATENT-APPL-SN-880728				US-PATENT-CLASS-294-86R
				US-PATENT-4,162,701				US-PATENT-CLASS-210-186				US-PATENT-CLASS-414-1
N79-31706*	c 43	.....		NASA-CASE-MFS-23725-1				US-PATENT-CLASS-210-340				US-PATENT-4,173,324
				US-PATENT-APPL-SN-848793				US-PATENT-CLASS-239-102	N80-14423*	c 43	.....	NASA-CASE-MFS-23720-2
				US-PATENT-CLASS-250-253				US-PATENT-CLASS-239-302				US-PATENT-APPL-SN-848421
				US-PATENT-CLASS-250-272				US-PATENT-CLASS-422-187				US-PATENT-CLASS-73-12
				US-PATENT-4,165,460				US-PATENT-CLASS-422-199				US-PATENT-CLASS-73-82
N79-31752*	c 44	.....		NASA-CASE-NPO-14205-1				US-PATENT-CLASS-422-208				US-PATENT-4,157,655
				US-PATENT-APPL-SN-920879				US-PATENT-CLASS-422-235	N80-14472*	c 44	.....	NASA-CASE-LEW-12586-1
				US-PATENT-CLASS-106-1				US-PATENT-CLASS-422-242				US-PATENT-APPL-SN-916655
				US-PATENT-CLASS-106-1.2				US-PATENT-CLASS-423-350				US-PATENT-CLASS-307-63
				US-PATENT-CLASS-136-89CC				US-PATENT-4,169,129				US-PATENT-CLASS-307-66
				US-PATENT-CLASS-252-514	N80-10507*	c 39	.....	NASA-CASE-NPO-14192-1				US-PATENT-CLASS-323-15
				US-PATENT-CLASS-29-572				US-PATENT-APPL-SN-830562				US-PATENT-CLASS-323-19
				US-PATENT-CLASS-29-589				US-PATENT-CLASS-181-102				US-PATENT-4,175,249
				US-PATENT-CLASS-357-30				US-PATENT-CLASS-181-105	N80-14473*	c 44	.....	NASA-CASE-MFS-23727-1
				US-PATENT-CLASS-357-65				US-PATENT-CLASS-367-26				US-PATENT-APPL-SN-856465
				US-PATENT-CLASS-357-67				US-PATENT-CLASS-467-28				US-PATENT-CLASS-126-438
				US-PATENT-CLASS-427-88				US-PATENT-4,168,483				US-PATENT-CLASS-126-442
				US-PATENT-4,163,678	N80-10709*	c 46	.....	NASA-CASE-NPO-14231-1				US-PATENT-CLASS-350-295
N79-31753*	c 44	.....		NASA-CASE-NPO-14467-1				US-PATENT-APPL-SN-903019				US-PATENT-CLASS-350-296
				US-PATENT-APPL-SN-946994				US-PATENT-CLASS-175-78				US-PATENT-4,173,397
				US-PATENT-CLASS-136-89PC				US-PATENT-CLASS-73-155	N80-14474*	c 44	.....	NASA-CASE-NPO-13652-3
				US-PATENT-4,162,928				US-PATENT-4,167,111				

				US-PATENT-APPL-SN-809890				US-PATENT-CLASS-73-188				US-PATENT-CLASS-156-278
				US-PATENT-APPL-SN-891358				US-PATENT-CLASS-73-189				US-PATENT-CLASS-156-285
				US-PATENT-CLASS-136-89P				US-PATENT-CLASS-73-212				US-PATENT-CLASS-156-303
				US-PATENT-CLASS-29-572				US-PATENT-4,184,149				US-PATENT-CLASS-156-312
				US-PATENT-CLASS-29-588		N80-18039*	c 07	NASA-CASE-LEW-12971-1		N80-18551*	c 44	US-PATENT-4,184,903
				US-PATENT-CLASS-29-627				US-PATENT-APPL-SN-858936				NASA-CASE-NPO-14096-1
				US-PATENT-4,133,697				US-PATENT-CLASS-60-240				US-PATENT-APPL-SN-928128
				US-PATENT-4,173,820				US-PATENT-CLASS-60-39.03				US-PATENT-CLASS-324-158D
N80-14579*	c 45			NASA-CASE-NPO-14340-1				US-PATENT-CLASS-60-39.27				US-PATENT-CLASS-324-404
				US-PATENT-APPL-SN-946992				US-PATENT-4,184,327				US-PATENT-4,184,111
				US-PATENT-CLASS-210-57		N80-18097*	c 20	NASA-CASE-MSC-18179-1		N80-18552*	c 44	NASA-CASE-LAR-11999-1
				US-PATENT-CLASS-210-63Z				US-PATENT-APPL-SN-931218				US-PATENT-APPL-SN-876299
				US-PATENT-CLASS-422-9				US-PATENT-CLASS-60-632				US-PATENT-CLASS-250-211K
				US-PATENT-4,172,786				US-PATENT-4,183,217				US-PATENT-CLASS-250-231SE
N80-14603*	c 46			NASA-CASE-NPO-14124-1		N80-18231*	c 31	NASA-CASE-NPO-14382-1				US-PATENT-4,184,072
				US-PATENT-APPL-SN-863024				US-PATENT-APPL-SN-891373		N80-18667*	c 48	NASA-CASE-MFS-23862-1
				US-PATENT-CLASS-343-100ME				US-PATENT-CLASS-261-118				US-PATENT-APPL-SN-951423
				US-PATENT-CLASS-343-112D				US-PATENT-CLASS-422-224				US-PATENT-CLASS-73-170A
				US-PATENT-4,170,776				US-PATENT-CLASS-423-350				US-PATENT-4,184,368
N80-14684*	c 52			NASA-CASE-LEW-12955-1				US-PATENT-4,188,368		N80-18690*	c 52	NASA-CASE-LEW-12723-1
				US-PATENT-APPL-SN-829318				NASA-CASE-NPO-14152-1				US-PATENT-APPL-SN-829317
				US-PATENT-CLASS-128-276				US-PATENT-APPL-SN-899828				US-PATENT-CLASS-128-276
				US-PATENT-4,157,718				US-PATENT-CLASS-178-58R				US-PATENT-CLASS-128-760
N80-14687*	c 52			NASA-CASE-NPO-14101-1				US-PATENT-CLASS-179-158A				US-PATENT-4,184,491
				US-PATENT-APPL-SN-772434				US-PATENT-4,187,394		N80-18691*	c 52	NASA-CASE-ARC-11120-1
				US-PATENT-CLASS-210-22				NASA-CASE-NPO-14328-1				US-PATENT-APPL-SN-796256
				US-PATENT-CLASS-210-321B				NASA-CASE-NPO-14579-1				US-PATENT-CLASS-128-748
				US-PATENT-4,094,775				NASA-CASE-NPO-14590-1				US-PATENT-CLASS-128-903
N80-14877*	c 72			NASA-CASE-NPO-14078-1				US-PATENT-APPL-SN-956160				US-PATENT-CLASS-73-724
				US-PATENT-APPL-SN-856466				US-PATENT-CLASS-325-305				US-PATENT-4,186,749
				US-PATENT-CLASS-250-281				US-PATENT-CLASS-325-307		N80-18951*	c 76	NASA-CASE-GSC-12291-1
				US-PATENT-CLASS-250-282				US-PATENT-CLASS-325-419				US-PATENT-APPL-SN-906298
				US-PATENT-CLASS-250-423P				US-PATENT-4,186,347				US-PATENT-CLASS-125-23R
				US-PATENT-4,158,775		N80-18285*	c 33	NASA-CASE-NPO-14229-1				US-PATENT-CLASS-269-21
N80-16116*	c 25			NASA-CASE-ARC-11107-1				US-PATENT-APPL-SN-835419				US-PATENT-CLASS-51-235
				US-PATENT-APPL-SN-883961				US-PATENT-APPL-SN-949886				US-PATENT-CLASS-83-152
				US-PATENT-CLASS-521-124				US-PATENT-CLASS-200-153S				US-PATENT-CLASS-83-870
				US-PATENT-CLASS-521-125				US-PATENT-CLASS-200-304				US-PATENT-4,184,472
				US-PATENT-CLASS-521-127				US-PATENT-CLASS-333-262		N80-20224*	c 02	NASA-CASE-LAR-12261-1
				US-PATENT-CLASS-521-157				US-PATENT-4,187,416				US-PATENT-APPL-SN-964009
				US-PATENT-CLASS-528-73		N80-18286*	c 33	NASA-CASE-GSC-12347-1				US-PATENT-CLASS-73-147
				US-PATENT-4,177,333				US-PATENT-APPL-SN-868249				US-PATENT-CLASS-73-205L
N80-16158*	c 27			NASA-CASE-LAR-12099-1				US-PATENT-CLASS-174-142				US-PATENT-4,188,823
				US-PATENT-APPL-SN-906299				US-PATENT-CLASS-174-73R		N80-20334*	c 25	NASA-CASE-NPO-14079-1
				US-PATENT-CLASS-528-207				US-PATENT-4,185,164				US-PATENT-APPL-SN-958573
				US-PATENT-CLASS-528-208				NASA-CASE-NPO-14224-1				US-PATENT-CLASS-250-307
				US-PATENT-4,180,648		N80-18287*	c 33	US-PATENT-APPL-SN-951829				US-PATENT-CLASS-250-308
N80-16163* #	c 27			NASA-CASE-NPO-14021-2				US-PATENT-CLASS-310-306				US-PATENT-4,194,115
				US-PATENT-APPL-SN-106188				US-PATENT-CLASS-343-100R		N80-20402*	c 28	NASA-CASE-LEW-12081-2
N80-16261* #	c 32			NASA-CASE-NPO-14362-1				US-PATENT-CLASS-343-100ST				US-PATENT-APPL-SN-676432
				US-PATENT-APPL-SN-106118				US-PATENT-4,187,506				US-PATENT-APPL-SN-837794
N80-16321*	c 36			NASA-CASE-LAR-12176-1		N80-18357*	c 35	NASA-CASE-NPO-14501-1				US-PATENT-CLASS-149-1
				US-PATENT-APPL-SN-929083				US-PATENT-APPL-SN-918535				US-PATENT-CLASS-423-648R
				US-PATENT-CLASS-332-751				US-PATENT-CLASS-264-40.4				US-PATENT-4,193,827
				US-PATENT-CLASS-350-359				US-PATENT-CLASS-73-343R		N80-20448*	c 32	NASA-CASE-NPO-14480-1
				US-PATENT-CLASS-356-243				US-PATENT-CLASS-73-56				US-PATENT-APPL-SN-910707
				US-PATENT-CLASS-356-28				US-PATENT-4,185,493				US-PATENT-CLASS-325-14
				US-PATENT-4,176,950		N80-18358*	c 35	NASA-CASE-LAR-12269-1				US-PATENT-CLASS-325-4
N80-16452*	c 44			NASA-CASE-MFS-23518-3				US-PATENT-APPL-SN-934576				US-PATENT-CLASS-325-8
				US-PATENT-APPL-SN-829390				US-PATENT-CLASS-73-4R				US-PATENT-CLASS-325-9
				US-PATENT-APPL-SN-910793				US-PATENT-CLASS-73-40				US-PATENT-4,189,675
				US-PATENT-CLASS-126-417				US-PATENT-4,182,158		N80-20487*	c 33	NASA-CASE-LEW-13148-1
				US-PATENT-CLASS-126-901		N80-18359*	c 35	NASA-CASE-GSC-12219-1				US-PATENT-APPL-SN-964754
				US-PATENT-CLASS-428-629				US-PATENT-APPL-SN-891356				US-PATENT-CLASS-429-101
				US-PATENT-CLASS-428-650				US-PATENT-CLASS-325-363				US-PATENT-CLASS-429-105
				US-PATENT-CLASS-428-658				US-PATENT-CLASS-343-100ME				US-PATENT-CLASS-429-107
				US-PATENT-CLASS-428-675				US-PATENT-CLASS-356-216				US-PATENT-CLASS-429-109
				US-PATENT-CLASS-428-680				US-PATENT-CLASS-73-355R				US-PATENT-4,192,910
				US-PATENT-4,104,134				US-PATENT-4,178,100		N80-20559*	c 35	NASA-CASE-LAR-12304-1
				US-PATENT-4,177,325		N80-18364* #	c 35	NASA-CASE-NPO-13606-2				US-PATENT-APPL-SN-928130
N80-16714*	c 51			NASA-CASE-MSC-16260-1				US-PATENT-APPL-SN-065676				US-PATENT-CLASS-29-25.35
				US-PATENT-APPL-SN-876440		N80-18372*	c 36	NASA-CASE-NPO-14254-1				US-PATENT-CLASS-310-311
				US-PATENT-CLASS-23-927				US-PATENT-APPL-SN-876432				US-PATENT-CLASS-310-327
				US-PATENT-CLASS-422-52				US-PATENT-CLASS-330-4				US-PATENT-CLASS-310-334
				US-PATENT-CLASS-435-34				US-PATENT-CLASS-333-24R				US-PATENT-CLASS-310-360
				US-PATENT-4,176,007				US-PATENT-4,187,470		N80-20560*	c 35	US-PATENT-4,195,244
N80-16715*	c 51			NASA-CASE-MFS-23883-1				NASA-CASE-ARC-11157-1				NASA-CASE-FRC-10093-1
				US-PATENT-APPL-SN-017888		N80-18393*	c 37	US-PATENT-APPL-SN-935827				US-PATENT-APPL-SN-878539
				US-PATENT-CLASS-204-180R				US-PATENT-CLASS-220-423				US-PATENT-CLASS-219-85CA
				US-PATENT-CLASS-204-299R				US-PATENT-CLASS-220-445				US-PATENT-CLASS-219-85CM
				US-PATENT-CLASS-424-12				US-PATENT-CLASS-220-901				US-PATENT-CLASS-219-85R
				US-PATENT-4,181,589				US-PATENT-4,184,609				US-PATENT-CLASS-338-2
N80-16725*	c 52			NASA-CASE-NPO-14092-1				US-PATENT-4,184,609				US-PATENT-4,195,279
				US-PATENT-APPL-SN-807597		N80-18400* #	c 37	NASA-CASE-NPO-12131-3		N80-20563*	c 35	NASA-CASE-NPO-14093-1
				US-PATENT-CLASS-128-DIG.9				US-PATENT-APPL-SN-096255				US-PATENT-APPL-SN-880729
				US-PATENT-CLASS-128-348		N80-18498*	c 43	NASA-CASE-LAR-12344-1				US-PATENT-CLASS-356-346
				US-PATENT-CLASS-128-6				US-PATENT-APPL-SN-945041				US-PATENT-4,193,693
				US-PATENT-CLASS-138-103				US-PATENT-CLASS-343-18B		N80-20808*	c 44	NASA-CASE-NPO-14237-1
				US-PATENT-CLASS-138-133				US-PATENT-CLASS-343-18P				US-PATENT-APPL-SN-897831
				US-PATENT-CLASS-138-33				US-PATENT-CLASS-343-5CM				US-PATENT-CLASS-126-263
				US-PATENT-CLASS-219-201				US-PATENT-CLASS-343-5W				US-PATENT-CLASS-149-15
				US-PATENT-CLASS-219-522				US-PATENT-4,184,155				US-PATENT-CLASS-149-37
				US-PATENT-4,176,662		N80-18550*	c 44	NASA-CASE-NPO-14303-1				US-PATENT-CLASS-220-429
N80-18036*	c 06			NASA-CASE-FRC-11009-1				NASA-CASE-NPO-14305-1				US-PATENT-4,193,388
				US-PATENT-APPL-SN-910708				US-PATENT-APPL-SN-928133		N80-20810*	c 44	NASA-CASE-LAR-12205-1
				US-PATENT-CLASS-340-177VA				US-PATENT-CLASS-156-104				US-PATENT-APPL-SN-900843

				US-PATENT-CLASS-126-419				US-PATENT-APPL-SN-848419				US-PATENT-APPL-SN-956529
				US-PATENT-CLASS-126-434				US-PATENT-CLASS-73-12				US-PATENT-CLASS-250-338
				US-PATENT-CLASS-126-437				US-PATENT-CLASS-73-82				US-PATENT-CLASS-250-352
				US-PATENT-CLASS-165-32				US-PATENT-4,195,512				US-PATENT-CLASS-250-353
				US-PATENT-4,192,290				NASA-CASE-FRC-11012-1				US-PATENT-CLASS-356-328
N80-21138*	c 74			NASA-CASE-LAR-12178-1	N80-23969*	c 52		US-PATENT-APPL-SN-928137	N80-26658*	c 37		US-PATENT-4,205,229
				US-PATENT-APPL-SN-953390				US-PATENT-CLASS-128-666				NASA-CASE-LEW-12131-2
				US-PATENT-CLASS-350-25				US-PATENT-CLASS-128-690				US-PATENT-APPL-SN-801290
				US-PATENT-CLASS-350-285				US-PATENT-4,198,988				US-PATENT-APPL-SN-931090
				US-PATENT-CLASS-356-150	N80-24149*	c 74		NASA-CASE-GSC-12348-1				US-PATENT-CLASS-415-174
				US-PATENT-CLASS-356-152				US-PATENT-APPL-SN-929088				US-PATENT-CLASS-415-196
				US-PATENT-4,189,234				US-PATENT-CLASS-51-277				US-PATENT-4,135,851
N80-21140*	c 74			NASA-CASE-GSC-12357-1				US-PATENT-CLASS-51-283R	N80-27067*	c 51		US-PATENT-4,207,024
				US-PATENT-APPL-SN-943089				US-PATENT-CLASS-65-61				NASA-CASE-MS-16777-1
				US-PATENT-CLASS-250-277CH				US-PATENT-4,198,788				US-PATENT-APPL-SN-893657
				US-PATENT-CLASS-250-280	N80-24437*	c 27		NASA-CASE-LEW-13027-1				US-PATENT-CLASS-204-195B
				US-PATENT-CLASS-350-162R				US-PATENT-APPL-SN-958575				US-PATENT-CLASS-23-230B
				US-PATENT-CLASS-356-334				US-PATENT-CLASS-427-164				US-PATENT-CLASS-422-68
				US-PATENT-4,192,994				US-PATENT-CLASS-427-38				US-PATENT-CLASS-435-289
N80-21719*	c 35			NASA-CASE-GSC-12273-1				US-PATENT-CLASS-427-40				US-PATENT-CLASS-435-290
				US-PATENT-APPL-SN-897830				US-PATENT-CLASS-428-421				US-PATENT-CLASS-435-291
				US-PATENT-CLASS-244-165				US-PATENT-CLASS-428-474				US-PATENT-CLASS-435-3
				US-PATENT-CLASS-244-170				US-PATENT-4,199,650				US-PATENT-CLASS-435-311
				US-PATENT-4,193,570	N80-24438*	c 27		NASA-CASE-MS-14903-3				US-PATENT-CLASS-435-316
N80-21828*	c 44			NASA-CASE-MFS-23515-1				US-PATENT-APPL-SN-706424				US-PATENT-CLASS-435-32
				US-PATENT-APPL-SN-880726				US-PATENT-APPL-SN-907479				US-PATENT-CLASS-435-34
				US-PATENT-CLASS-415-101				US-PATENT-CLASS-260-DIG.29				US-PATENT-CLASS-435-38
				US-PATENT-CLASS-415-2				US-PATENT-CLASS-525-326				US-PATENT-CLASS-435-39
				US-PATENT-4,191,505				US-PATENT-CLASS-525-336				US-PATENT-4,204,037
N80-23383*	c 25			NASA-CASE-ARC-11154-1				US-PATENT-CLASS-525-340	N80-27072*	c 52		NASA-CASE-NPO-14212-1
				US-PATENT-APPL-SN-921626				US-PATENT-CLASS-525-374				US-PATENT-APPL-SN-838308
				US-PATENT-CLASS-521-146				US-PATENT-CLASS-525-375				US-PATENT-CLASS-128-642
				US-PATENT-CLASS-521-55				US-PATENT-CLASS-526-261				US-PATENT-CLASS-128-774
				US-PATENT-CLASS-521-918				US-PATENT-CLASS-526-275				US-PATENT-CLASS-128-782
				US-PATENT-CLASS-525-4				US-PATENT-CLASS-526-276				US-PATENT-CLASS-33-125R
				US-PATENT-CLASS-55-66				US-PATENT-CLASS-526-278				US-PATENT-CLASS-338-2
				US-PATENT-CLASS-55-67				US-PATENT-CLASS-528-481				US-PATENT-CLASS-73-781
				US-PATENT-CLASS-55-68				US-PATENT-4,200,721				US-PATENT-4,204,544
				US-PATENT-CLASS-55-72	N80-24510*	c 32		NASA-CASE-NPO-14524-1	N80-27163*	c 72		NASA-CASE-NPO-14324-1
				US-PATENT-4,198,792				NASA-CASE-NPO-14527-1				US-PATENT-APPL-SN-940970
N80-23419*	c 26			NASA-CASE-MFS-23816-1				US-PATENT-APPL-SN-957452				US-PATENT-CLASS-250-427
				US-PATENT-APPL-SN-974292				US-PATENT-CLASS-350-294				US-PATENT-CLASS-313-156
				US-PATENT-CLASS-148-32				US-PATENT-CLASS-350-6.5				US-PATENT-CLASS-313-362
				US-PATENT-CLASS-75-135				US-PATENT-CLASS-350-6.6				US-PATENT-CLASS-313-363
				US-PATENT-CLASS-75-138				US-PATENT-CLASS-356-28.5				US-PATENT-4,206,383
				US-PATENT-CLASS-75-178R				US-PATENT-4,201,468	N80-27185*	c 74		NASA-CASE-LAR-12251-1
				US-PATENT-4,198,232	N80-24573*	c 34		NASA-CASE-LEW-12441-2				US-PATENT-APPL-SN-953389
N80-23452*	c 27			NASA-CASE-ARC-10980-1				US-PATENT-APPL-SN-559846				US-PATENT-CLASS-350-175E
				US-PATENT-APPL-SN-694407				US-PATENT-APPL-SN-856462				US-PATENT-CLASS-350-226
				US-PATENT-CLASS-204-171				US-PATENT-CLASS-239-127.1				US-PATENT-4,206,970
				US-PATENT-CLASS-210-23H				US-PATENT-CLASS-60-267	N80-28300*	c 02		NASA-CASE-FRC-11024-1
				US-PATENT-CLASS-210-500M				US-PATENT-4,199,937				US-PATENT-APPL-SN-015983
				US-PATENT-CLASS-427-245	N80-24741*	c 44		NASA-CASE-NPO-14635-1				US-PATENT-CLASS-73-180
				US-PATENT-CLASS-427-41				US-PATENT-APPL-SN-008212				US-PATENT-CLASS-73-182
				US-PATENT-4,199,448				US-PATENT-CLASS-136-89SG				US-PATENT-CLASS-73-861.65
N80-23471*	c 28			NASA-CASE-NPO-14109-1				US-PATENT-CLASS-156-DIG.64				US-PATENT-CLASS-73-861.66
				US-PATENT-APPL-SN-946990				US-PATENT-CLASS-156-605				US-PATENT-4,212,199
				US-PATENT-CLASS-149-108.4				US-PATENT-CLASS-156-617SP	N80-28492*	c 26		NASA-CASE-LAR-11821-1
				US-PATENT-CLASS-23-300				US-PATENT-CLASS-252-62.3E				US-PATENT-APPL-SN-023501
				US-PATENT-CLASS-23-302A				US-PATENT-4,210,622				US-PATENT-CLASS-148-131
				US-PATENT-CLASS-23-302R	N80-24906*	c 46		NASA-CASE-NPO-14558-1				US-PATENT-CLASS-266-119
				US-PATENT-CLASS-23-302T				US-PATENT-APPL-SN-945436				US-PATENT-CLASS-266-249
				US-PATENT-4,198,209				US-PATENT-CLASS-73-155				US-PATENT-CLASS-266-274
N80-23524*	c 32			NASA-CASE-NPO-14519-1				US-PATENT-4,196,619				US-PATENT-4,212,690
				US-PATENT-APPL-SN-008207	N80-26298*	c 07		NASA-CASE-ARC-10814-2	N80-28536*	c 28		NASA-CASE-NPO-14477-1
				US-PATENT-CLASS-343-786				US-PATENT-APPL-SN-684045				US-PATENT-APPL-SN-951830
				US-PATENT-CLASS-343-895				US-PATENT-APPL-SN-831632				US-PATENT-CLASS-149-19.2
				US-PATENT-4,199,764				US-PATENT-CLASS-60-39.06				US-PATENT-CLASS-149-19.9
N80-23559*	c 33			NASA-CASE-NPO-13804-1				US-PATENT-CLASS-60-733				US-PATENT-CLASS-149-20
				US-PATENT-APPL-SN-766999				US-PATENT-CLASS-60-746				US-PATENT-4,210,474
				US-PATENT-CLASS-310-319				US-PATENT-4,204,402	N80-28578*	c 32		NASA-CASE-GSC-12365-1
				US-PATENT-CLASS-331-65	N80-26388*	c 24		NASA-CASE-MFS-23626-1				US-PATENT-APPL-SN-039031
				US-PATENT-CLASS-340-602				US-PATENT-APPL-SN-941711				US-PATENT-CLASS-343-100SA
				US-PATENT-CLASS-340-604				US-PATENT-CLASS-156-212				US-PATENT-CLASS-343-844
				US-PATENT-4,197,530				US-PATENT-CLASS-156-213				US-PATENT-CLASS-343-854
N80-23653*	c 37			NASA-CASE-MS-16938-1				US-PATENT-CLASS-156-285				US-PATENT-4,213,131
				US-PATENT-APPL-SN-938582				US-PATENT-CLASS-260-17.2	N80-28686*	c 35		NASA-CASE-LAR-11370-1
				US-PATENT-CLASS-151-41.76				US-PATENT-CLASS-264-118				US-PATENT-APPL-SN-940689
				US-PATENT-4,193,435				US-PATENT-CLASS-264-119				US-PATENT-CLASS-250-457
N80-23654*	c 37			NASA-CASE-NPO-14473-1				US-PATENT-CLASS-264-124				US-PATENT-CLASS-250-491
				US-PATENT-APPL-SN-938300				US-PATENT-4,204,899				US-PATENT-CLASS-250-513
				US-PATENT-CLASS-137-375	N80-26446*	c 27		NASA-CASE-MS-16074-1				US-PATENT-4,213,051
				US-PATENT-CLASS-137-625.4				US-PATENT-APPL-SN-747674	N80-28687*	c 35		NASA-CASE-LAR-12285-1
				US-PATENT-CLASS-251-138				US-PATENT-CLASS-204-159.15				US-PATENT-APPL-SN-929087
				US-PATENT-CLASS-251-86				US-PATENT-CLASS-204-159.19				US-PATENT-CLASS-356-244
				US-PATENT-4,195,666				US-PATENT-CLASS-525-426				US-PATENT-CLASS-356-369
N80-23655*	c 37			NASA-CASE-GSC-12318-1				US-PATENT-CLASS-8-DIG.12				US-PATENT-4,210,401
				US-PATENT-APPL-SN-894213				US-PATENT-CLASS-8-DIG.18	N80-28711*	c 37		NASA-CASE-LEW-12119-1
				US-PATENT-CLASS-219-160				US-PATENT-CLASS-8-115.5				US-PATENT-APPL-SN-672219
				US-PATENT-CLASS-219-161				US-PATENT-4,203,723				US-PATENT-CLASS-277-153
				US-PATENT-CLASS-228-212	N80-26599*	c 33		NASA-CASE-FRC-10113-1				US-PATENT-CLASS-277-193
				US-PATENT-CLASS-228-222				US-PATENT-APPL-SN-885066				US-PATENT-CLASS-277-224
				US-PATENT-CLASS-228-44.1R				US-PATENT-CLASS-324-51				US-PATENT-4,212,477
				US-PATENT-CLASS-269-287				US-PATENT-4,204,154	N80-29539*	c 32		NASA-CASE-LAR-11745-1
				US-PATENT-4,196,840	N80-26635*	c 35		NASA-CASE-NPO-14372-1				US-PATENT-APPL-SN-799025
N80-23711*	c 43			NASA-CASE-MFS-23720-1				US-PATENT-APPL-SN-846333				US-PATENT-CLASS-343-786

N80-29583* #	c 33	US-PATENT-4,089,004	US-PATENT-APPL-SN-938293	US-PATENT-CLASS-260-898
		NASA-CASE-FRC-11055-1	US-PATENT-CLASS-333-12	US-PATENT-CLASS-260-901
N80-29703*	c 37	US-PATENT-APPL-SN-172098	US-PATENT-CLASS-333-252	US-PATENT-CLASS-521-27
		NASA-CASE-NPO-14406-1	US-PATENT-CLASS-333-99S	US-PATENT-CLASS-521-32
N80-29834*	c 44	US-PATENT-APPL-SN-951828	US-PATENT-4,215,327	US-PATENT-CLASS-521-62
		US-PATENT-CLASS-125-21	NASA-CASE-NPO-14424-1	US-PATENT-4,119,581
N80-29835*	c 44	US-PATENT-CLASS-83-820	NASA-CASE-NPO-14430-1	NASA-CASE-MSC-12631-3
		US-PATENT-4,191,159	US-PATENT-APPL-SN-918534	US-PATENT-APPL-SN-006852
N80-31790*	c 37	NASA-CASE-LAR-11551-1	US-PATENT-CLASS-324-62	US-PATENT-APPL-SN-568541
		US-PATENT-APPL-SN-883090	US-PATENT-CLASS-324-64	US-PATENT-APPL-SN-785279
N80-32244*	c 76	US-PATENT-CLASS-290-53	US-PATENT-4,218,650	US-PATENT-CLASS-156-154
		US-PATENT-CLASS-310-30	NASA-CASE-MFS-23777-1	US-PATENT-CLASS-156-160
N80-32245*	c 76	US-PATENT-4,191,893	US-PATENT-APPL-SN-931217	US-PATENT-CLASS-156-163
		NASA-CASE-NPO-13786-1	US-PATENT-CLASS-318-15	US-PATENT-CLASS-156-212
N80-32259*	c 04	US-PATENT-APPL-SN-696374	US-PATENT-CLASS-74-425	US-PATENT-CLASS-156-267
		US-PATENT-CLASS-148-1.5	US-PATENT-CLASS-74-661	US-PATENT-CLASS-156-295
N80-32392*	c 07	US-PATENT-CLASS-357-30	US-PATENT-CLASS-74-665C	US-PATENT-CLASS-156-323
		US-PATENT-CLASS-357-52	US-PATENT-4,215,592	US-PATENT-CLASS-156-331
N80-32484*	c 26	US-PATENT-CLASS-357-91	NASA-CASE-GSC-12289-1	US-PATENT-4,032,089
		US-PATENT-4,090,213	US-PATENT-APPL-SN-943086	US-PATENT-4,225,372
N80-32514*	c 27	NASA-CASE-LEW-12274-1	US-PATENT-CLASS-198-847	NASA-CASE-LAR-12054-2
		US-PATENT-APPL-SN-950876	US-PATENT-CLASS-198-848	US-PATENT-APPL-SN-011737
N80-32515*	c 27	US-PATENT-CLASS-417-383	US-PATENT-CLASS-474-205	US-PATENT-APPL-SN-839963
		US-PATENT-CLASS-600-520	US-PATENT-4,215,590	US-PATENT-CLASS-264-137
N80-32516*	c 27	US-PATENT-4,215,548	NASA-CASE-ARC-11258-1	US-PATENT-CLASS-427-385.5
		NASA-CASE-NPO-14298-1	US-PATENT-APPL-SN-185865	US-PATENT-CLASS-427-429
N80-32583*	c 31	US-PATENT-APPL-SN-938579	NASA-CASE-LEW-12940-1	US-PATENT-CLASS-428-473.5
		US-PATENT-CLASS-156-DIG.96	US-PATENT-APPL-SN-953391	US-PATENT-4,166,170
N80-32584*	c 31	US-PATENT-CLASS-422-246	US-PATENT-CLASS-313-231.4	US-PATENT-4,233,258
		US-PATENT-4,216,186	US-PATENT-CLASS-313-362	NASA-CASE-LEW-12081-3
N80-32604*	c 32	NASA-CASE-NPO-14295-1	US-PATENT-4,218,633	US-PATENT-APPL-SN-009887
		US-PATENT-APPL-SN-901055	NASA-CASE-MSC-18255-1	US-PATENT-APPL-SN-676432
N80-32605*	c 32	US-PATENT-CLASS-156-DIG.64	US-PATENT-APPL-SN-025163	US-PATENT-APPL-SN-837794
		US-PATENT-CLASS-156-DIG.88	US-PATENT-CLASS-250-347	US-PATENT-CLASS-149-1
		US-PATENT-CLASS-156-601	US-PATENT-CLASS-250-352	US-PATENT-CLASS-156-344
		US-PATENT-CLASS-156-617SP	US-PATENT-CLASS-250-353	US-PATENT-CLASS-423-648R
		US-PATENT-4,217,165	US-PATENT-CLASS-350-55	US-PATENT-CLASS-44-7R
		NASA-CASE-NPO-14173-1	US-PATENT-CLASS-356-72	US-PATENT-CLASS-55-2
		US-PATENT-APPL-SN-938581	US-PATENT-4,215,273	US-PATENT-CLASS-62-12
		US-PATENT-CLASS-343-112R	NASA-CASE-LEW-11930-3	US-PATENT-CLASS-62-18
		US-PATENT-4,215,345	US-PATENT-APPL-SN-513611	US-PATENT-CLASS-62-40
		NASA-CASE-ARC-10977-1	US-PATENT-APPL-SN-616528	US-PATENT-CLASS-62-47
		US-PATENT-APPL-SN-023436	US-PATENT-APPL-SN-764245	US-PATENT-4,077,788
		US-PATENT-CLASS-239-127.3	US-PATENT-CLASS-75-200	US-PATENT-4,193,827
		US-PATENT-CLASS-239-265.33	US-PATENT-CLASS-75-222	US-PATENT-4,229,196
		US-PATENT-CLASS-60-264	US-PATENT-4,214,905	NASA-CASE-KSC-11064-1
		US-PATENT-4,214,703	NASA-CASE-MFS-25535-1	US-PATENT-APPL-SN-897840
		NASA-CASE-LEW-12542-3	US-PATENT-APPL-SN-199765	US-PATENT-CLASS-169-62
		US-PATENT-APPL-SN-007083	NASA-CASE-LEW-12806-2	US-PATENT-CLASS-169-70
		US-PATENT-APPL-SN-803822	US-PATENT-APPL-SN-065676	US-PATENT-4,219,084
		US-PATENT-CLASS-75-124	US-PATENT-APPL-SN-915050	NASA-CASE-NPO-14536-1
		US-PATENT-4,214,902	US-PATENT-CLASS-136-249	US-PATENT-APPL-SN-974471
		NASA-CASE-NPO-13137-1	US-PATENT-CLASS-136-291	US-PATENT-CLASS-343-100TD
		US-PATENT-APPL-SN-332123	US-PATENT-CLASS-363-147	US-PATENT-4,233,606
		US-PATENT-APPL-SN-374810	US-PATENT-CLASS-363-27	NASA-CASE-NPO-14749-1
		US-PATENT-CLASS-568-852	US-PATENT-CLASS-363-60	US-PATENT-APPL-SN-078521
		US-PATENT-CLASS-568-861	US-PATENT-4,217,633	US-PATENT-CLASS-375-107
		US-PATENT-4,118,427	NASA-CASE-ARC-11174-1	US-PATENT-CLASS-455-51
		NASA-CASE-NPO-13899-1	US-PATENT-APPL-SN-929086	US-PATENT-CLASS-455-619
		US-PATENT-APPL-SN-761252	US-PATENT-CLASS-260-17.2	US-PATENT-CLASS-455-71
		US-PATENT-APPL-SN-933186	US-PATENT-CLASS-428-114	US-PATENT-4,234,971
		US-PATENT-CLASS-260-346.3	US-PATENT-CLASS-428-528	NASA-CASE-MSC-16800-1
		US-PATENT-4,196,129	US-PATENT-CLASS-428-541	US-PATENT-APPL-SN-953313
		NASA-CASE-LEW-13103-1	US-PATENT-CLASS-428-921	US-PATENT-CLASS-343-727
		US-PATENT-APPL-SN-971596	US-PATENT-4,209,561	US-PATENT-CLASS-343-789
		US-PATENT-CLASS-156-272	NASA-CASE-LAR-12065-1	US-PATENT-CLASS-343-797
		US-PATENT-CLASS-156-292	US-PATENT-APPL-SN-889671	US-PATENT-4,218,685
		US-PATENT-CLASS-204-159.11	US-PATENT-CLASS-156-330	NASA-CASE-NPO-14163-1
		US-PATENT-CLASS-204-159.14	US-PATENT-CLASS-428-113	US-PATENT-APPL-SN-878541
		US-PATENT-CLASS-264-212	US-PATENT-CLASS-428-114	US-PATENT-CLASS-363-56
		US-PATENT-CLASS-264-22	US-PATENT-CLASS-428-140	US-PATENT-CLASS-363-71
		US-PATENT-CLASS-427-44	US-PATENT-CLASS-428-413	US-PATENT-CLASS-363-78
		US-PATENT-CLASS-428-500	US-PATENT-CLASS-428-480	US-PATENT-4,222,098
		US-PATENT-CLASS-429-139	US-PATENT-CLASS-428-902	NASA-CASE-GSC-12411-1
		US-PATENT-4,218,280	US-PATENT-4,229,473	US-PATENT-APPL-SN-965367
		NASA-CASE-GSC-12191-1	NASA-CASE-NPO-14143-1	US-PATENT-CLASS-340-309.4
		US-PATENT-APPL-SN-009886	US-PATENT-APPL-SN-938297	US-PATENT-CLASS-340-310A
		US-PATENT-CLASS-165-16	US-PATENT-CLASS-250-343	US-PATENT-CLASS-340-310R
		US-PATENT-CLASS-236-13	US-PATENT-CLASS-356-437	US-PATENT-CLASS-340-870.24
		US-PATENT-CLASS-236-44C	US-PATENT-4,234,258	US-PATENT-CLASS-368-47
		US-PATENT-CLASS-236-49	NASA-CASE-ARC-11241-1	US-PATENT-CLASS-370-85
		US-PATENT-4,210,278	US-PATENT-APPL-SN-037066	US-PATENT-4,228,422
		NASA-CASE-NPO-14191-1	US-PATENT-CLASS-260-33.8F	NASA-CASE-NPO-14513-1
		US-PATENT-APPL-SN-830846	US-PATENT-CLASS-528-362	US-PATENT-APPL-SN-025162
		US-PATENT-CLASS-181-102	US-PATENT-CLASS-528-401	US-PATENT-CLASS-165-105
		US-PATENT-CLASS-367-27	US-PATENT-CLASS-528-422	US-PATENT-CLASS-62-514R
		US-PATENT-CLASS-367-36	US-PATENT-4,234,715	US-PATENT-4,218,892
		US-PATENT-CLASS-367-57	NASA-CASE-NPO-14001-1	NASA-CASE-MSC-16973-1
		US-PATENT-4,214,226	US-PATENT-APPL-SN-771245	US-PATENT-APPL-SN-969756
		NASA-CASE-MSC-18334-1	US-PATENT-CLASS-210-24R	US-PATENT-CLASS-150-11
		US-PATENT-APPL-SN-051270	US-PATENT-CLASS-260-17A	US-PATENT-CLASS-156-294
		US-PATENT-CLASS-343-700MS	US-PATENT-CLASS-260-2.1E	US-PATENT-CLASS-52-232
		US-PATENT-CLASS-343-830	US-PATENT-CLASS-260-858	US-PATENT-CLASS-52-743
		US-PATENT-4,218,682	US-PATENT-CLASS-260-886	US-PATENT-4,235,060
		NASA-CASE-NPO-14253-1	US-PATENT-CLASS-260-8900	NASA-CASE-NPO-14220-1
		NASA-CASE-NPO-14640-1	US-PATENT-CLASS-260-895	US-PATENT-APPL-SN-907421

			US-PATENT-CLASS-60-518				US-PATENT-CLASS-375-1				US-PATENT-CLASS-333-204
			US-PATENT-CLASS-74-417				US-PATENT-CLASS-375-115				US-PATENT-4,227,096
			US-PATENT-4,228,656				US-PATENT-CLASS-375-58		N81-17349*	c 33	NASA-CASE-MSC-16747-1
N81-14319*	c 37		NASA-CASE-LAR-11855-1				US-PATENT-4,221,005				US-PATENT-APPL-SN-974475
			US-PATENT-APPL-SN-953314		N81-15192*	c 33	NASA-CASE-NPO-14444-1				US-PATENT-CLASS-328-134
			US-PATENT-CLASS-407-117				US-PATENT-APPL-SN-017890				US-PATENT-CLASS-328-37
			US-PATENT-CLASS-407-85				US-PATENT-CLASS-332-22				US-PATENT-CLASS-328-55
			US-PATENT-CLASS-408-1R				US-PATENT-CLASS-332-23R				US-PATENT-CLASS-331-48
			US-PATENT-CLASS-82-1.2				US-PATENT-CLASS-375-54				US-PATENT-4,241,308
			US-PATENT-CLASS-82-1C				US-PATENT-CLASS-375-67		N81-17432*	c 37	NASA-CASE-NPO-14388-1
			US-PATENT-CLASS-82-36R				US-PATENT-CLASS-455-102				US-PATENT-APPL-SN-008208
			US-PATENT-4,218,941				US-PATENT-4,216,542				US-PATENT-CLASS-60-518
N81-14320*	c 37		NASA-CASE-GSC-12429-1		N81-15363*	c 37	NASA-CASE-MSC-18134-1				US-PATENT-CLASS-74-417
			US-PATENT-APPL-SN-009888				US-PATENT-APPL-SN-974472				US-PATENT-4,240,256
			US-PATENT-CLASS-244-161				US-PATENT-CLASS-277-181		N81-17433*	c 37	NASA-CASE-ARC-11251-1
			US-PATENT-CLASS-294-106				US-PATENT-CLASS-277-229				US-PATENT-APPL-SN-057465
			US-PATENT-CLASS-414-1				US-PATENT-4,219,203				US-PATENT-CLASS-128-DIG.20
			US-PATENT-4,219,171		N81-15364*	c 37	NASA-CASE-NPO-14170-1				US-PATENT-CLASS-137-549
N81-14389*	c 44		NASA-CASE-NPO-14416-1				US-PATENT-APPL-SN-860404				US-PATENT-CLASS-137-886
			US-PATENT-APPL-SN-014664				US-PATENT-CLASS-188-134				US-PATENT-CLASS-137-887
			US-PATENT-CLASS-28-DIG.1				US-PATENT-CLASS-188-184				US-PATENT-CLASS-251-216
			US-PATENT-CLASS-29-832				US-PATENT-CLASS-244-173				US-PATENT-CLASS-251-339
			US-PATENT-4,219,926				US-PATENT-4,219,107		N81-17499*	c 43	US-PATENT-4,239,057
N81-14605*	c 51		NASA-CASE-ARC-11114-1				NASA-CASE-NPO-14162-1				NASA-CASE-FRC-11013-1
			US-PATENT-APPL-SN-951422		N81-15706*	c 60	NASA-CASE-NPO-14167-1				US-PATENT-APPL-SN-043912
			US-PATENT-CLASS-128-DIG.12				NASA-CASE-NPO-14169-1				US-PATENT-CLASS-244-160
			US-PATENT-CLASS-128-DIG.16				US-PATENT-APPL-SN-893903				US-PATENT-CLASS-244-49
			US-PATENT-CLASS-128-DIG.26				US-PATENT-CLASS-307-219		N81-17518*	c 44	US-PATENT-4,240,601
			US-PATENT-CLASS-128-DIG.6				US-PATENT-CLASS-307-225R				NASA-CASE-NPO-14619-1
			US-PATENT-CLASS-128-DIG.9				US-PATENT-CLASS-307-269				US-PATENT-APPL-SN-027559
			US-PATENT-CLASS-128-204.18				US-PATENT-CLASS-307-291				US-PATENT-CLASS-126-419
			US-PATENT-CLASS-128-207.14				US-PATENT-CLASS-328-192				US-PATENT-CLASS-60-524
			US-PATENT-CLASS-128-207.28				US-PATENT-CLASS-328-48				US-PATENT-CLASS-60-641
			US-PATENT-CLASS-128-236				US-PATENT-CLASS-328-61				US-PATENT-4,236,383
			US-PATENT-4,212,297				US-PATENT-4,213,064		N81-17886*	c 74	NASA-CASE-NPO-14219-1
N81-14612*	c 52		NASA-CASE-ARC-11117-1				NASA-CASE-MFS-20500-1				US-PATENT-APPL-SN-888432
			US-PATENT-APPL-SN-003693		N81-15767*	c 71	US-PATENT-APPL-SN-057466				US-PATENT-CLASS-350-301
			US-PATENT-CLASS-128-642				US-PATENT-CLASS-308-10				US-PATENT-CLASS-354-118
			US-PATENT-4,219,027				US-PATENT-CLASS-73-505				US-PATENT-CLASS-362-11
N81-14613*	c 52		NASA-CASE-ARC-11118-2				US-PATENT-4,218,921				US-PATENT-CLASS-362-241
			US-PATENT-APPL-SN-850504				NASA-CASE-LEW-23169-2		N81-17887*	c 74	US-PATENT-4,213,684
			US-PATENT-APPL-SN-974476		N81-16209* #	c 26	US-PATENT-APPL-SN-191746				NASA-CASE-NPO-14657-1
			US-PATENT-CLASS-424-274				NASA-CASE-FRC-11029-1				US-PATENT-APPL-SN-008211
			US-PATENT-4,230,717		N81-17057*	c 06	US-PATENT-APPL-SN-164617				US-PATENT-CLASS-356-432
N81-14968*	c 02		NASA-CASE-LAR-12326-1				US-PATENT-CLASS-73-147				US-PATENT-CLASS-73-15R
			US-PATENT-APPL-SN-019541				US-PATENT-CLASS-73-178R		N81-17888*	c 74	US-PATENT-4,243,327
			US-PATENT-CLASS-102-56R				US-PATENT-4,240,290				NASA-CASE-NPO-14502-1
			US-PATENT-CLASS-102-92.1				NASA-CASE-LEW-12493-1				US-PATENT-APPL-SN-965368
			US-PATENT-CLASS-244-119		N81-17170*	c 24	US-PATENT-APPL-SN-893857				US-PATENT-CLASS-356-345
			US-PATENT-CLASS-244-130				US-PATENT-CLASS-156-292				US-PATENT-CLASS-356-352
			US-PATENT-4,225,102				US-PATENT-CLASS-228-118				US-PATENT-CLASS-356-358
N81-14999*	c 07		NASA-CASE-LEW-13201-1				US-PATENT-CLASS-228-170				US-PATENT-4,243,323
			US-PATENT-APPL-SN-038980				US-PATENT-CLASS-228-174		N81-19087*	c 05	US-PATENT-APPL-SN-11797-1
			US-PATENT-CLASS-137-15.1				US-PATENT-CLASS-228-190				US-PATENT-APPL-SN-969755
			US-PATENT-CLASS-181-214				US-PATENT-4,211,354				US-PATENT-CLASS-244-17.25
			US-PATENT-4,220,171				NASA-CASE-NPO-13530-1				US-PATENT-CLASS-416-114
N81-15104*	c 27		NASA-CASE-NPO-10830-1		N81-17187*	c 25	US-PATENT-CLASS-210-500M				US-PATENT-CLASS-416-500
			US-PATENT-APPL-SN-825489				US-PATENT-CLASS-260-2.1				US-PATENT-CLASS-74-519
			US-PATENT-CLASS-117-6				US-PATENT-CLASS-260-2.2R		N81-19115*	c 07	US-PATENT-4,245,956
			US-PATENT-CLASS-138-8R				US-PATENT-4,014,788				NASA-CASE-LEW-12907-2
			US-PATENT-CLASS-260-33.6UB				NASA-CASE-ARC-11248-1				US-PATENT-APPL-SN-752050
			US-PATENT-CLASS-33.8UB		N81-17259*	c 27	US-PATENT-APPL-SN-028300				US-PATENT-APPL-SN-909235
			US-PATENT-CLASS-37N				US-PATENT-CLASS-528-362				US-PATENT-CLASS-364-106
			US-PATENT-CLASS-41R				US-PATENT-CLASS-528-401				US-PATENT-CLASS-364-431
			US-PATENT-CLASS-77.5AQ				US-PATENT-CLASS-528-422				US-PATENT-CLASS-60-39.24
			US-PATENT-CLASS-77.5CH				US-PATENT-CLASS-528-423				US-PATENT-4,249,238
			US-PATENT-CLASS-859R				US-PATENT-4,242,498		N81-19116*	c 07	NASA-CASE-LEW-12594-2
			US-PATENT-CLASS-94.9N				NASA-CASE-LEW-13226-1				US-PATENT-APPL-SN-741056
			US-PATENT-3,655,814		N81-17260*	c 27	US-PATENT-APPL-SN-070771				US-PATENT-APPL-SN-909608
N81-15119*	c 28		NASA-CASE-NPO-14110-1				US-PATENT-CLASS-260-326N				US-PATENT-CLASS-60-226R
			US-PATENT-APPL-SN-947000				US-PATENT-CLASS-260-326S				US-PATENT-CLASS-60-236
			US-PATENT-CLASS-149-108.4				US-PATENT-CLASS-260-37EP				US-PATENT-CLASS-60-238
			US-PATENT-CLASS-23-293R				US-PATENT-CLASS-528-118				US-PATENT-CLASS-60-239
			US-PATENT-CLASS-252-364				US-PATENT-CLASS-528-322				US-PATENT-4,242,864
			US-PATENT-CLASS-260-96D				US-PATENT-CLASS-538-117		N81-19130*	c 08	NASA-CASE-LAR-11970-2
			US-PATENT-CLASS-423-1				US-PATENT-4,244,857				US-PATENT-APPL-SN-034104
			US-PATENT-CLASS-423-131				NASA-CASE-NPO-14315-1				US-PATENT-APPL-SN-727503
			US-PATENT-CLASS-423-658.5		N81-17261*	c 27	US-PATENT-APPL-SN-900659				US-PATENT-CLASS-244-12.5
			US-PATENT-CLASS-525-384				US-PATENT-CLASS-201-10				US-PATENT-CLASS-244-52
			US-PATENT-CLASS-526-914				US-PATENT-CLASS-201-25				US-PATENT-CLASS-244-87
			US-PATENT-CLASS-75-25				US-PATENT-CLASS-201-8		N81-19242*	c 25	US-PATENT-4,236,684
			US-PATENT-4,229,182				US-PATENT-CLASS-44-50				NASA-CASE-MFS-25000-1
N81-15154*	c 31		NASA-CASE-NPO-13758-2				US-PATENT-CLASS-44-62				US-PATENT-APPL-SN-974474
			US-PATENT-APPL-SN-623389				US-PATENT-4,246,001				US-PATENT-CLASS-260-29.6RB
			US-PATENT-APPL-SN-727444				NASA-CASE-ARC-11253-1				US-PATENT-CLASS-526-201
			US-PATENT-CLASS-110-218		N81-17262*	c 27	US-PATENT-APPL-SN-028301				US-PATENT-CLASS-526-88
			US-PATENT-CLASS-110-229				US-PATENT-CLASS-528-310				US-PATENT-4,247,434
			US-PATENT-CLASS-110-232				US-PATENT-CLASS-528-362		N81-19244*	c 25	NASA-CASE-NPO-13309-1
			US-PATENT-CLASS-110-343				US-PATENT-CLASS-528-401				US-PATENT-APPL-SN-363130
			US-PATENT-CLASS-110-347				US-PATENT-CLASS-528-422				US-PATENT-CLASS-210-24
			US-PATENT-CLASS-202-118				US-PATENT-4,245,085				US-PATENT-CLASS-260-2.1E
			US-PATENT-CLASS-264-23				NASA-CASE-MFS-23845-1				US-PATENT-CLASS-260-2.2R
			US-PATENT-CLASS-425-378R		N81-17348*	c 33	US-PATENT-APPL-SN-938298				US-PATENT-CLASS-264-41
			US-PATENT-4,206,713				US-PATENT-CLASS-307-233R		N81-19296*	c 27	US-PATENT-3,944,485
N81-15179*	c 32		NASA-CASE-MSC-18035-1				US-PATENT-CLASS-307-306				NASA-CASE-LEW-12933-1
			US-PATENT-APPL-SN-041142								US-PATENT-APPL-SN-027557

		US-PATENT-CLASS-260-33.4R	N81-22360* #	c 37	NASA-CASE-LEW-12445-1	US-PATENT-CLASS-422-3
		US-PATENT-CLASS-427-221			US-PATENT-APPL-SN-238887	US-PATENT-CLASS-422-30
		US-PATENT-CLASS-427-379	N81-24106*	c 08	NASA-CASE-LAR-12268-1	US-PATENT-CLASS-422-34
		US-PATENT-CLASS-528-353			US-PATENT-APPL-SN-015996	US-PATENT-4,250,143
		US-PATENT-4,244,853			US-PATENT-CLASS-244-181	N81-24779* c 62
N81-19343*	c 31	NASA-CASE-GSC-12513-1			US-PATENT-CLASS-244-195	NASA-CASE-KSC-11048-1
		US-PATENT-APPL-SN-053571			US-PATENT-CLASS-318-584	US-PATENT-APPL-SN-023437
		US-PATENT-CLASS-109-49.5			US-PATENT-CLASS-364-434	US-PATENT-CLASS-364-200
		US-PATENT-CLASS-109-58.5			US-PATENT-4,261,537	US-PATENT-4,254,464
		US-PATENT-CLASS-220-82R	N81-24256*	c 27	NASA-CASE-ARC-11253-3	N81-24900* c 74
		US-PATENT-CLASS-220-89A			US-PATENT-APPL-SN-028301	NASA-CASE-GSC-12528-1
		US-PATENT-CLASS-49-171			US-PATENT-APPL-SN-145283	US-PATENT-APPL-SN-111439
		US-PATENT-4,245,566			US-PATENT-CLASS-260-465.5R	US-PATENT-CLASS-250-368
N81-19389*	c 33	NASA-CASE-NPO-14297-1			US-PATENT-CLASS-528-310	US-PATENT-CLASS-250-483
		US-PATENT-APPL-SN-938299			US-PATENT-CLASS-564-229	US-PATENT-4,262,206
		US-PATENT-CLASS-156-DIG.96			US-PATENT-4,269,787	N81-25159* c 25
		US-PATENT-CLASS-156-608	N81-24257*	c 27	NASA-CASE-LEW-13135-2	NASA-CASE-NPO-15102-1
		US-PATENT-CLASS-219-10.49R			US-PATENT-APPL-SN-113014	US-PATENT-APPL-SN-154726
		US-PATENT-CLASS-219-10.67			US-PATENT-APPL-SN-971475	US-PATENT-CLASS-250-350
		US-PATENT-CLASS-422-246			US-PATENT-CLASS-264-104	US-PATENT-CLASS-356-432
		US-PATENT-CLASS-422-249			US-PATENT-CLASS-264-105	US-PATENT-4,253,769
		US-PATENT-CLASS-432-264			US-PATENT-CLASS-429-139	N81-25188* c 26
		US-PATENT-4,242,553			US-PATENT-CLASS-429-249	NASA-CASE-LEW-13088-1
N81-19392*	c 33	NASA-CASE-GSC-12360-1			US-PATENT-CLASS-429-253	US-PATENT-APPL-SN-089779
		US-PATENT-APPL-SN-041164			US-PATENT-CLASS-429-27	US-PATENT-CLASS-428-471
		US-PATENT-CLASS-363-101			US-PATENT-CLASS-429-28	US-PATENT-CLASS-428-632
		US-PATENT-CLASS-363-21			US-PATENT-CLASS-525-61	US-PATENT-CLASS-428-678
		US-PATENT-4,245,286			US-PATENT-4,262,067	US-PATENT-CLASS-428-679
N81-19393*	c 33	NASA-CASE-NPO-14505-1	N81-24258*	c 27	NASA-CASE-NPO-10424-1	US-PATENT-CLASS-428-680
		US-PATENT-APPL-SN-056166			US-PATENT-APPL-SN-692636	US-PATENT-4,255,495
		US-PATENT-CLASS-363-21			US-PATENT-CLASS-260-37	N81-25209* c 27
		US-PATENT-CLASS-363-36			US-PATENT-3,651,008	NASA-CASE-MS-C-18107-1
		US-PATENT-CLASS-363-40			US-PATENT-4,262,067	US-PATENT-APPL-SN-956168
		US-PATENT-CLASS-363-47	N81-24280*	c 28	NASA-CASE-MS-C-16394-1	US-PATENT-CLASS-430-271
		US-PATENT-4,245,288			US-PATENT-APPL-SN-161255	US-PATENT-CLASS-430-325
N81-19426*	c 35	NASA-CASE-MFS-23923-1			US-PATENT-CLASS-204-129	US-PATENT-CLASS-430-329
		US-PATENT-APPL-SN-053569			US-PATENT-CLASS-204-252	US-PATENT-CLASS-430-330
		US-PATENT-CLASS-73-190R			US-PATENT-CLASS-204-266	US-PATENT-4,262,080
		US-PATENT-4,248,083			US-PATENT-CLASS-204-290F	N81-25258* c 31
N81-19427*	c 35	NASA-CASE-MS-C-16370-1			US-PATENT-CLASS-204-290R	NASA-CASE-LAR-12095-1
		US-PATENT-APPL-SN-061556			US-PATENT-CLASS-204-291	US-PATENT-APPL-SN-811401
		US-PATENT-CLASS-329-107			US-PATENT-4,263,112	US-PATENT-CLASS-244-158R
		US-PATENT-CLASS-329-50	N81-24338*	c 33	NASA-CASE-NPO-14617-1	US-PATENT-CLASS-403-171
		US-PATENT-CLASS-375-1			US-PATENT-APPL-SN-051269	US-PATENT-CLASS-428-902
		US-PATENT-CLASS-375-104			US-PATENT-CLASS-330-8	US-PATENT-CLASS-52-309.1
		US-PATENT-CLASS-375-34			US-PATENT-4,262,259	US-PATENT-CLASS-52-648
		US-PATENT-CLASS-375-99	N81-24422*	c 36	NASA-CASE-LAR-12177-1	US-PATENT-CLASS-52-726
		US-PATENT-4,241,312			US-PATENT-APPL-SN-027558	US-PATENT-4,259,821
N81-19455*	c 37	NASA-CASE-LEW-12982-1			US-PATENT-CLASS-356-28.5	N81-25259* c 31
		US-PATENT-APPL-SN-929084			US-PATENT-CLASS-356-356	NASA-CASE-LAR-12095-1
		US-PATENT-CLASS-204-192E			US-PATENT-CLASS-356-358	US-PATENT-APPL-SN-811401
		US-PATENT-CLASS-228-116			US-PATENT-4,255,048	US-PATENT-CLASS-244-158R
		US-PATENT-CLASS-228-205	N81-24442*	c 37	NASA-CASE-LEW-12991-1	US-PATENT-CLASS-403-171
		US-PATENT-4,245,768			US-PATENT-APPL-SN-961832	US-PATENT-CLASS-428-902
N81-19558*	c 44	NASA-CASE-NPO-14670-1			US-PATENT-CLASS-277-96	US-PATENT-CLASS-52-309.1
		US-PATENT-APPL-SN-043941			US-PATENT-4,260,166	US-PATENT-CLASS-52-648
		US-PATENT-CLASS-136-258	N81-24443*	c 37	NASA-CASE-LAR-11695-2	US-PATENT-CLASS-52-726
		US-PATENT-CLASS-252-62.3E			US-PATENT-APPL-SN-103836	US-PATENT-4,259,825
		US-PATENT-CLASS-357-30			US-PATENT-CLASS-152-330R	N81-25278* c 32
		US-PATENT-CLASS-357-59			US-PATENT-CLASS-152-353G	NASA-CASE-NPO-14588-1
		US-PATENT-CLASS-357-63			US-PATENT-CLASS-152-379.4	US-PATENT-APPL-SN-008209
		US-PATENT-4,249,957			US-PATENT-CLASS-244-103R	US-PATENT-CLASS-343-755
N81-19896*	c 74	NASA-CASE-NPO-11337-1			US-PATENT-CLASS-244-130	US-PATENT-CLASS-343-772
		NASA-CASE-NPO-11575-1			US-PATENT-4,267,992	US-PATENT-CLASS-343-781R
		US-PATENT-APPL-SN-090584			US-PATENT-4,252,768	US-PATENT-CLASS-343-786
		US-PATENT-APPL-SN-276599	N81-24519*	c 44	NASA-CASE-LEW-12441-3	US-PATENT-4,258,366
		US-PATENT-CLASS-340-146.3H			US-PATENT-APPL-SN-032307	N81-25299* c 33
		US-PATENT-CLASS-340-146.3S			US-PATENT-APPL-SN-856462	NASA-CASE-GSC-12399-1
		US-PATENT-CLASS-340-146.3Y			US-PATENT-CLASS-239-127.1	US-PATENT-APPL-SN-961831
		US-PATENT-3,845,466			US-PATENT-CLASS-60-204	US-PATENT-CLASS-70-58
N81-19898*	c 74	NASA-CASE-NPO-12087-1			US-PATENT-CLASS-60-267	US-PATENT-4,252,007
		US-PATENT-APPL-SN-095217			US-PATENT-4,199,937	N81-25370* c 37
		US-PATENT-CLASS-250-83.6R			US-PATENT-4,245,469	NASA-CASE-NPO-14221-1
		US-PATENT-3,704,284	N81-24520*	c 44	NASA-CASE-MFS-23999-1	US-PATENT-APPL-SN-907431
N81-20352* #	c 33	NASA-CASE-NPO-13970-1			US-PATENT-APPL-SN-060435	US-PATENT-CLASS-356-213
		US-PATENT-APPL-SN-023484			US-PATENT-CLASS-250-203R	US-PATENT-CLASS-356-216
		US-PATENT-CLASS-318-138			US-PATENT-CLASS-250-209	US-PATENT-CLASS-356-234
		US-PATENT-CLASS-318-254			US-PATENT-4,262,195	US-PATENT-CLASS-356-332
		US-PATENT-CLASS-318-439			US-PATENT-4,267,992	US-PATENT-4,252,440
		US-PATENT-4,249,116	N81-24521*	c 44	NASA-CASE-LEW-12918-1	N81-25660* c 52
N81-20703*	c 52	NASA-CASE-NPO-14329-1			US-PATENT-APPL-SN-134855	NASA-CASE-MFS-23717-1
		US-PATENT-APPL-SN-044432			US-PATENT-CLASS-429-120	US-PATENT-APPL-SN-950877
		US-PATENT-CLASS-128-642			US-PATENT-CLASS-429-160	US-PATENT-CLASS-128-DIG.25
		US-PATENT-CLASS-128-774			US-PATENT-CLASS-429-164	US-PATENT-CLASS-128-1R
		US-PATENT-CLASS-73-141A			US-PATENT-CLASS-429-94	US-PATENT-CLASS-128-346
		US-PATENT-4,249,417			US-PATENT-4,262,064	US-PATENT-CLASS-137-493
N81-21047*	c 04	NASA-CASE-ARC-11257-1	N81-24711*	c 52	NASA-CASE-MS-C-16433-1	US-PATENT-4,256,093
		US-PATENT-APPL-SN-078611			US-PATENT-APPL-SN-910992	N81-25661* c 52
		US-PATENT-CLASS-73-178R			US-PATENT-CLASS-128-295	NASA-CASE-GSC-12082-2
		US-PATENT-CLASS-73-490			US-PATENT-CLASS-128-761	US-PATENT-APPL-SN-676958
		US-PATENT-CLASS-73-504			US-PATENT-CLASS-4-144.3	US-PATENT-APPL-SN-798976
		US-PATENT-4,244,215			US-PATENT-4,246,901	US-PATENT-CLASS-128-80F
N81-22280* #	c 33	NASA-CASE-MFS-24368-3	N81-24724*	c 54	NASA-CASE-KSC-11085-1	US-PATENT-4,252,111
		US-PATENT-APPL-SN-243683			US-PATENT-APPL-SN-046739	N81-25662* c 52
N81-22344* #	c 36	NASA-CASE-GSC-12609-1			US-PATENT-CLASS-261-79A	NASA-CASE-ARC-11167-1
		US-PATENT-APPL-SN-218586			US-PATENT-CLASS-422-109	US-PATENT-APPL-SN-057526
					US-PATENT-CLASS-422-27	US-PATENT-CLASS-128-89R
						US-PATENT-4,261,349
						N81-26073* # c 02
						NASA-CASE-KSC-11042-2
						US-PATENT-APPL-SN-154663
						N81-26114* c 05
						NASA-CASE-LAR-12406-1
						US-PATENT-APPL-SN-008210
						US-PATENT-CLASS-165-104.14
						US-PATENT-CLASS-244-117A

			US-PATENT-CLASS-244-163				US-PATENT-CLASS-528-6				US-PATENT-APPL-SN-102002
			US-PATENT-CLASS-60-259				US-PATENT-4,276,403				US-PATENT-CLASS-364-453
			US-PATENT-CLASS-60-267		N81-27272*	c 27	NASA-CASE-ARC-11321-1				US-PATENT-APPL-SN-145271
			US-PATENT-CLASS-60-730				US-PATENT-APPL-SN-175452				US-PATENT-CLASS-73-178R
			US-PATENT-CLASS-62-DIG.5				US-PATENT-CLASS-428-260				US-PATENT-CLASS-73-510
			US-PATENT-4,273,304				US-PATENT-CLASS-428-367		N81-29160*	c 23	US-PATENT-4,281,384
N81-26152*	c 08		NASA-CASE-LAR-12562-1				US-PATENT-CLASS-428-408				NASA-CASE-LEW-13101-2
			US-PATENT-APPL-SN-015995				US-PATENT-CLASS-428-902				US-PATENT-APPL-SN-145271
			US-PATENT-CLASS-244-181				US-PATENT-CLASS-428-920				US-PATENT-APPL-SN-971473
			US-PATENT-CLASS-244-182				US-PATENT-CLASS-526-262				US-PATENT-CLASS-260-17.4UC
			US-PATENT-4,266,743				US-PATENT-CLASS-528-228				US-PATENT-CLASS-264-104
N81-26161*	c 14		NASA-CASE-LAR-12250-1				US-PATENT-4,276,344				US-PATENT-CLASS-428-139
			US-PATENT-APPL-SN-910794		N81-27323*	c 31	NASA-CASE-MS-16217-1				US-PATENT-CLASS-429-249
			US-PATENT-CLASS-244-160				US-PATENT-APPL-SN-893383				US-PATENT-CLASS-429-253
			US-PATENT-CLASS-244-2				US-PATENT-CLASS-52-108				US-PATENT-CLASS-429-27
			US-PATENT-CLASS-244-63				US-PATENT-CLASS-52-745				US-PATENT-CLASS-429-28
			US-PATENT-4,265,416				US-PATENT-4,237,662				US-PATENT-CLASS-525-56
N81-26179*	c 24		NASA-CASE-LEW-12493-2		N81-27324*	c 31	NASA-CASE-LAR-12195-1				US-PATENT-CLASS-525-61
			US-PATENT-APPL-SN-122967				US-PATENT-APPL-SN-946991				US-PATENT-4,272,470
			US-PATENT-APPL-SN-893857				US-PATENT-CLASS-182-62.5		N81-29163*	c 24	NASA-CASE-MFS-23674-1
			US-PATENT-CLASS-228-118				US-PATENT-CLASS-212-267				US-PATENT-APPL-SN-912276
			US-PATENT-CLASS-228-190				US-PATENT-CLASS-52-111				US-PATENT-CLASS-156-161
			US-PATENT-4,211,354				US-PATENT-CLASS-52-632				US-PATENT-CLASS-156-165
			US-PATENT-4,267,953				US-PATENT-4,238,911				US-PATENT-CLASS-156-285
N81-26358*	c 33		NASA-CASE-LAR-12196-1		N81-27341*	c 32	NASA-CASE-GSC-12147-1				US-PATENT-CLASS-156-294
			US-PATENT-APPL-SN-017887				US-PATENT-APPL-SN-780873				US-PATENT-CLASS-156-74
			US-PATENT-CLASS-343-100PE				US-PATENT-CLASS-343-112R				US-PATENT-CLASS-264-229
			US-PATENT-4,264,908				US-PATENT-4,276,553				US-PATENT-CLASS-264-231
N81-26359*	c 33		NASA-CASE-KSC-11065-1		N81-27395*	c 33	NASA-CASE-MFS-23988-1				US-PATENT-CLASS-264-258
			US-PATENT-APPL-SN-051271				US-PATENT-APPL-SN-044431				US-PATENT-CLASS-264-259
			US-PATENT-CLASS-324-51				US-PATENT-CLASS-307-252UA				US-PATENT-CLASS-264-311
			US-PATENT-CLASS-324-73AT				US-PATENT-CLASS-318-799				US-PATENT-CLASS-74-572
			US-PATENT-CLASS-371-20				US-PATENT-CLASS-318-810				US-PATENT-4,190,626
			US-PATENT-CLASS-371-25				US-PATENT-4,266,177		N81-29229*	c 27	NASA-CASE-LAR-12642-1
			US-PATENT-4,267,594		N81-27396*	c 33	NASA-CASE-NPO-14426-1				US-PATENT-APPL-SN-092141
N81-26360*	c 33		NASA-CASE-GSC-12515-1				US-PATENT-APPL-SN-009889				US-PATENT-CLASS-264-137
			US-PATENT-APPL-SN-172727				US-PATENT-CLASS-307-352				US-PATENT-CLASS-428-473.5
			US-PATENT-CLASS-148-1.5				US-PATENT-CLASS-307-353				US-PATENT-CLASS-528-222
			US-PATENT-CLASS-148-187				US-PATENT-CLASS-328-151				US-PATENT-CLASS-528-229
			US-PATENT-CLASS-156-647				US-PATENT-4,262,258				US-PATENT-4,281,102
			US-PATENT-CLASS-156-648		N81-27397*	c 33	NASA-CASE-MS-12745-1		N81-29308*	c 32	NASA-CASE-NPO-14641-1
			US-PATENT-CLASS-156-649				US-PATENT-APPL-SN-746579				US-PATENT-APPL-SN-076643
			US-PATENT-CLASS-29-571				US-PATENT-CLASS-179-78				US-PATENT-CLASS-343-100CL
			US-PATENT-CLASS-29-578				US-PATENT-CLASS-333-12				US-PATENT-CLASS-455-278
			US-PATENT-CLASS-29-580				US-PATENT-CLASS-361-56				US-PATENT-4,278,978
			US-PATENT-CLASS-357-23				US-PATENT-CLASS-361-91		N81-29342*	c 33	NASA-CASE-GSC-12111-2
			US-PATENT-CLASS-357-55				US-PATENT-4,264,940				US-PATENT-APPL-SN-678813
			US-PATENT-CLASS-357-60		N81-27519*	c 37	NASA-CASE-NPO-14521-1				US-PATENT-APPL-SN-830272
			US-PATENT-CLASS-357-91				US-PATENT-APPL-SN-023439				US-PATENT-CLASS-350-96.25
			US-PATENT-4,272,302				US-PATENT-CLASS-244-161				US-PATENT-CLASS-365-120
N81-26402*	c 34		NASA-CASE-KSC-11076-1				US-PATENT-CLASS-294-86R				US-PATENT-4,154,501
			US-PATENT-APPL-SN-051274				US-PATENT-CLASS-318-640		N81-29407*	c 35	NASA-CASE-LAR-12308-1
			US-PATENT-CLASS-364-510				US-PATENT-CLASS-356-152				US-PATENT-APPL-SN-111438
			US-PATENT-CLASS-364-571				US-PATENT-CLASS-414-730				US-PATENT-CLASS-73-683.31
			US-PATENT-CLASS-73-861				US-PATENT-4,260,187				US-PATENT-CLASS-73-684.52
			US-PATENT-4,253,156		N81-27615* #	c 44	NASA-CASE-LEW-13556-1				US-PATENT-4,274,285
N81-26431*	c 35		NASA-CASE-FRC-10112-1				US-PATENT-APPL-SN-272233		N81-29524*	c 44	NASA-CASE-LEW-13148-2
			US-PATENT-APPL-SN-122965		N81-27783*	c 52	NASA-CASE-NPO-14402-1				US-PATENT-APPL-SN-061555
			US-PATENT-CLASS-219-209				US-PATENT-APPL-SN-855364				US-PATENT-APPL-SN-964754
			US-PATENT-CLASS-219-210				US-PATENT-CLASS-128-665				US-PATENT-CLASS-204-2.1
			US-PATENT-CLASS-219-510				US-PATENT-CLASS-356-406				US-PATENT-4,192,910
			US-PATENT-CLASS-236-1F				US-PATENT-CLASS-356-407				US-PATENT-4,270,984
			US-PATENT-CLASS-361-334				US-PATENT-CLASS-356-416		N81-29525*	c 44	NASA-CASE-NPO-13689-2
			US-PATENT-CLASS-73-361				US-PATENT-4,170,987				US-PATENT-APPL-SN-093714
			US-PATENT-4,264,802		N81-27806*	c 54	NASA-CASE-LAR-12320-1				US-PATENT-APPL-SN-597430
N81-26447*	c 37		NASA-CASE-LEW-12119-2				US-PATENT-APPL-SN-043913				US-PATENT-APPL-SN-683073
			US-PATENT-APPL-SN-102004				US-PATENT-CLASS-434-59				US-PATENT-APPL-SN-837513
			US-PATENT-APPL-SN-672219				US-PATENT-4,264,310				US-PATENT-CLASS-136-255
			US-PATENT-CLASS-277-153		N81-27814*	c 60	NASA-CASE-NPO-14554-1				US-PATENT-CLASS-136-258
			US-PATENT-CLASS-277-193				US-PATENT-APPL-SN-974473				US-PATENT-CLASS-136-262
			US-PATENT-4,212,477				US-PATENT-CLASS-364-200				US-PATENT-CLASS-357-15
			US-PATENT-4,266,788				US-PATENT-CLASS-364-900				US-PATENT-CLASS-357-30
N81-26509*	c 43		NASA-CASE-NPO-14140-1				US-PATENT-CLASS-370-58		N81-29763*	c 52	US-PATENT-4,278,830
			NASA-CASE-NPO-14387-1				US-PATENT-4,264,984				NASA-CASE-ARC-11031-1
			US-PATENT-APPL-SN-897832		N81-28698*	c 51	NASA-CASE-LAR-12520-1				US-PATENT-APPL-SN-897828
			US-PATENT-CLASS-134-17				US-PATENT-APPL-SN-067596				US-PATENT-CLASS-128-275
			US-PATENT-CLASS-166-222				US-PATENT-CLASS-204-1T				US-PATENT-CLASS-128-760
			US-PATENT-CLASS-166-77				US-PATENT-CLASS-204-195B				US-PATENT-4,190,060
			US-PATENT-CLASS-239-562				US-PATENT-CLASS-435-291		N81-29764*	c 52	NASA-CASE-ARC-11118-1
			US-PATENT-CLASS-239-591				US-PATENT-CLASS-435-34				US-PATENT-APPL-SN-850504
			US-PATENT-CLASS-299-13				US-PATENT-CLASS-435-5				US-PATENT-CLASS-424-247
			US-PATENT-CLASS-299-17				US-PATENT-4,264,728				US-PATENT-CLASS-424-267
			US-PATENT-CLASS-299-20		N81-28740*	c 52	NASA-CASE-MS-18381-1				US-PATENT-CLASS-424-274
			US-PATENT-4,226,475				US-PATENT-APPL-SN-034531				US-PATENT-4,279,906
N81-26718*	c 54		NASA-CASE-MFS-23696-1				US-PATENT-CLASS-128-295		N81-29963*	c 74	NASA-CASE-NPO-14448-1
			US-PATENT-APPL-SN-945044				US-PATENT-CLASS-4-144.3				US-PATENT-APPL-SN-037560
			US-PATENT-CLASS-294-93				US-PATENT-4,270,539				US-PATENT-CLASS-356-345
			US-PATENT-CLASS-414-4		N81-29129*	c 07	NASA-CASE-LEW-12990-1				US-PATENT-CLASS-356-346
			US-PATENT-CLASS-414-735				US-PATENT-APPL-SN-916654				US-PATENT-4,278,351
			US-PATENT-CLASS-414-744A				US-PATENT-CLASS-261-28		N81-32510*	c 37	NASA-CASE-MS-16239-1
			US-PATENT-4,273,505				US-PATENT-CLASS-431-2				US-PATENT-APPL-SN-847726
N81-27271*	c 27		NASA-CASE-ARC-11176-2				US-PATENT-CLASS-60-39.06				US-PATENT-CLASS-91-325
			US-PATENT-APPL-SN-129798				US-PATENT-CLASS-60-726				US-PATENT-CLASS-91-341R
			US-PATENT-CLASS-528-168				US-PATENT-CLASS-60-737				US-PATENT-CLASS-91-410
			US-PATENT-CLASS-528-399				US-PATENT-4,189,914				US-PATENT-4,283,995
			US-PATENT-CLASS-528-4		N81-29152*	c 18	NASA-CASE-LAR-12052-1		N81-32829*	c 51	NASA-CASE-MFS-23825-1

				US-PATENT-APPL-SN-145273				US-PATENT-CLASS-528-351				US-PATENT-CLASS-250-235
				US-PATENT-CLASS-119-17				US-PATENT-CLASS-528-353				US-PATENT-CLASS-250-236
				US-PATENT-CLASS-119-18				US-PATENT-4,284,461				US-PATENT-CLASS-358-109
N81-33235*	c 24			US-PATENT-4,284,034	N82-11336*	c 32		NASA-CASE-MSC-18606-1	N82-15381*	c 35		US-PATENT-4,300,159
				NASA-CASE-LAR-12065-2				US-PATENT-APPL-SN-145206				NASA-CASE-NPO-14839-1
				US-PATENT-APPL-SN-119337				US-PATENT-CLASS-343-700MS				US-PATENT-APPL-SN-106119
				US-PATENT-APPL-SN-889671				US-PATENT-CLASS-343-708				US-PATENT-CLASS-343-100PE
				US-PATENT-CLASS-156-242				US-PATENT-CLASS-343-727				US-PATENT-CLASS-455-137
				US-PATENT-CLASS-156-245				US-PATENT-CLASS-343-795				US-PATENT-CLASS-455-139
				US-PATENT-CLASS-156-252				US-PATENT-CLASS-343-846				US-PATENT-CLASS-455-60
				US-PATENT-CLASS-156-264				US-PATENT-4,287,518				US-PATENT-4,295,140
				US-PATENT-CLASS-156-285	N82-11357*	c 33		NASA-CASE-MSC-18106-1	N82-16059*	c 04		NASA-CASE-ARC-10990-1
				US-PATENT-CLASS-156-290				US-PATENT-APPL-SN-098568				US-PATENT-APPL-SN-749420
				US-PATENT-4,229,473				US-PATENT-CLASS-335-256				US-PATENT-CLASS-244-114R
				US-PATENT-4,274,901				US-PATENT-CLASS-335-266				US-PATENT-CLASS-340-26
N81-33246*	c 25			NASA-CASE-NPO-14272-1				US-PATENT-CLASS-361-141				US-PATENT-4,291,284
				US-PATENT-APPL-SN-878253				US-PATENT-4,295,111	N82-16075*	c 06		NASA-CASE-FRC-11005-1
				US-PATENT-CLASS-201-17	N82-11360* #	c 33		NASA-CASE-MFS-25586-1				US-PATENT-APPL-SN-043942
				US-PATENT-CLASS-44-1R				US-PATENT-APPL-SN-310714				US-PATENT-CLASS-340-27NA
				US-PATENT-CLASS-44-2	N82-11399* #	c 34		NASA-CASE-LEW-12950-1				US-PATENT-CLASS-73-178R
				US-PATENT-4,146,367				US-PATENT-APPL-SN-202228				US-PATENT-4,283,705
N81-33319*	c 31			NASA-CASE-NPO-14596-1	N82-11431*	c 35		NASA-CASE-LAR-12552-1	N82-16174*	c 23		NASA-CASE-ARC-11244-1
				US-PATENT-APPL-SN-037072				US-PATENT-APPL-SN-070366				US-PATENT-APPL-SN-054501
				US-PATENT-CLASS-264-24				US-PATENT-CLASS-235-92PC				US-PATENT-CLASS-260-340.9R
				US-PATENT-CLASS-264-5				US-PATENT-CLASS-324-71CP				US-PATENT-CLASS-568-445
				US-PATENT-CLASS-264-9				US-PATENT-4,286,209				US-PATENT-CLASS-568-497
				US-PATENT-CLASS-425-6	N82-11432*	c 35		NASA-CASE-MFS-23250-1	N82-16238*	c 27		US-PATENT-4,277,402
				US-PATENT-CLASS-65-142				US-PATENT-APPL-SN-119340				NASA-CASE-MSC-18382-1
				US-PATENT-CLASS-65-21.4				US-PATENT-CLASS-422-40				US-PATENT-APPL-SN-145107
				US-PATENT-CLASS-65-22				US-PATENT-CLASS-430-17				US-PATENT-CLASS-106-18.16
				US-PATENT-4,279,632				US-PATENT-CLASS-430-372				US-PATENT-CLASS-106-18.24
N81-33403*	c 33			NASA-CASE-GSC-12324-1				US-PATENT-4,287,152				US-PATENT-CLASS-260-45.7R
				US-PATENT-APPL-SN-945043	N82-11469* #	c 37		NASA-CASE-NPO-15539-1				US-PATENT-CLASS-427-393.3
				US-PATENT-CLASS-358-109				US-PATENT-APPL-SN-303670				US-PATENT-CLASS-428-263
				US-PATENT-CLASS-358-213	N82-11634*	c 45		NASA-CASE-NPO-13877-1				US-PATENT-CLASS-428-264
				US-PATENT-4,280,141				US-PATENT-APPL-SN-652979				US-PATENT-CLASS-428-265
N81-33404*	c 33			NASA-CASE-NPO-14316-1				US-PATENT-CLASS-210-40				US-PATENT-CLASS-428-267
				US-PATENT-APPL-SN-051276				US-PATENT-CLASS-252-422				US-PATENT-CLASS-428-272
				US-PATENT-CLASS-363-24				US-PATENT-4,209,393				US-PATENT-4,284,682
				US-PATENT-CLASS-363-56	N82-11770*	c 52		NASA-CASE-MSC-14836-1	N82-16340*	c 33		NASA-CASE-GSC-12420-1
				US-PATENT-4,276,588				US-PATENT-APPL-SN-691647				US-PATENT-APPL-SN-129793
N81-33405*	c 33			NASA-CASE-NPO-14435-1				US-PATENT-CLASS-128-327				US-PATENT-CLASS-333-104
				US-PATENT-APPL-SN-017886				US-PATENT-CLASS-128-686				US-PATENT-CLASS-333-246
				US-PATENT-CLASS-329-122				US-PATENT-CLASS-128-691				US-PATENT-4,302,734
				US-PATENT-CLASS-331-DIG.2				US-PATENT-4,294,261	N82-16396*	c 36		NASA-CASE-GSC-12321-1
				US-PATENT-CLASS-364-514				NASA-CASE-MSC-16497-1				US-PATENT-APPL-SN-102001
				US-PATENT-CLASS-375-1	N82-12166*	c 25		US-PATENT-APPL-SN-041145				US-PATENT-CLASS-356-349
				US-PATENT-4,279,018				US-PATENT-CLASS-204-1T				US-PATENT-CLASS-356-386
N81-33448*	c 35			NASA-CASE-NPO-14258-1				US-PATENT-CLASS-204-195S				US-PATENT-4,299,492
				US-PATENT-APPL-SN-853349				US-PATENT-CLASS-204-263	N82-16408*	c 37		NASA-CASE-MSC-18422-1
				US-PATENT-APPL-SN-972252				US-PATENT-CLASS-204-264				US-PATENT-APPL-SN-102593
				US-PATENT-CLASS-350-370				US-PATENT-CLASS-204-266				US-PATENT-CLASS-244-113
				US-PATENT-CLASS-356-350				US-PATENT-CLASS-204-275				US-PATENT-CLASS-244-163
				US-PATENT-CLASS-356-351				US-PATENT-CLASS-204-276				US-PATENT-CLASS-244-217
				US-PATENT-4,280,766				US-PATENT-CLASS-204-278				US-PATENT-CLASS-277-189
N81-33482*	c 37			NASA-CASE-NPO-15227-1				US-PATENT-CLASS-23-230PC				US-PATENT-CLASS-277-81R
				US-PATENT-APPL-SN-163840				US-PATENT-CLASS-23-232E				US-PATENT-CLASS-418-113
				US-PATENT-CLASS-118-50				US-PATENT-CLASS-422-80				US-PATENT-CLASS-418-142
				US-PATENT-CLASS-118-52				US-PATENT-4,293,522				US-PATENT-4,290,612
				US-PATENT-CLASS-269-21	N82-12297*	c 32		NASA-CASE-NPO-14054-1	N82-16474*	c 44		NASA-CASE-MFS-23775-1
				US-PATENT-CLASS-427-240				US-PATENT-APPL-SN-969761				US-PATENT-APPL-SN-098569
				US-PATENT-4,280,689				US-PATENT-CLASS-343-5CM				US-PATENT-CLASS-73-341
N81-33483*	c 37			NASA-CASE-FRC-11044-1				US-PATENT-4,292,634				US-PATENT-4,282,752
				US-PATENT-APPL-SN-135056	N82-12441*	c 37		NASA-CASE-MFS-25363-1	N82-16475*	c 44		NASA-CASE-NPO-15071-1
				US-PATENT-CLASS-318-663				US-PATENT-APPL-SN-171933				US-PATENT-APPL-SN-150115
				US-PATENT-CLASS-74-89				US-PATENT-CLASS-118-423				US-PATENT-CLASS-126-438
				US-PATENT-CLASS-92-130R				US-PATENT-CLASS-118-500				US-PATENT-CLASS-250-527
				US-PATENT-4,274,038				US-PATENT-CLASS-134-137				US-PATENT-CLASS-48-89
N82-11088*	c 09			NASA-CASE-LAR-12532-1				US-PATENT-4,286,542				US-PATENT-CLASS-48-99
				US-PATENT-APPL-SN-135040	N82-12442*	c 37		NASA-CASE-LEW-12989-1				US-PATENT-4,290,779
				US-PATENT-CLASS-73-147				US-PATENT-APPL-SN-092145	N82-16747*	c 60		NASA-CASE-GSC-12430-1
				US-PATENT-4,286,460				US-PATENT-CLASS-277-27				US-PATENT-APPL-SN-129779
N82-11144*	c 25			NASA-CASE-NPO-14273-1				US-PATENT-CLASS-277-40				US-PATENT-CLASS-370-100
				US-PATENT-APPL-SN-969759				US-PATENT-CLASS-277-93R				US-PATENT-CLASS-375-106
				US-PATENT-CLASS-110-234				US-PATENT-4,291,887				US-PATENT-CLASS-375-114
				US-PATENT-CLASS-110-245	N82-12685*	c 46		NASA-CASE-NPO-14544-1				US-PATENT-CLASS-375-116
				US-PATENT-CLASS-110-255				US-PATENT-APPL-SN-078612				US-PATENT-4,298,987
				US-PATENT-CLASS-110-266				US-PATENT-CLASS-343-100ME	N82-16800*	c 71		NASA-CASE-FRC-11062-1
				US-PATENT-CLASS-122-4D				US-PATENT-CLASS-343-100PE				US-PATENT-APPL-SN-185869
				US-PATENT-4,287,838				US-PATENT-CLASS-343-781P				US-PATENT-CLASS-181-214
N82-11206*	c 27			NASA-CASE-LAR-12640-1				US-PATENT-4,282,525				US-PATENT-4,300,656
				US-PATENT-APPL-SN-092142	N82-13376*	c 34		NASA-CASE-MFS-25139-1	N82-18314*	c 20		NASA-CASE-GSC-12194-2
				US-PATENT-CLASS-156-307.7				US-PATENT-APPL-SN-126138				US-PATENT-APPL-SN-819029
				US-PATENT-CLASS-156-307.3				US-PATENT-CLASS-239-499				US-PATENT-APPL-SN-971474
				US-PATENT-CLASS-156-307.5				US-PATENT-CLASS-239-589				US-PATENT-CLASS-60-200R
				US-PATENT-CLASS-156-331.5				US-PATENT-CLASS-239-601				US-PATENT-CLASS-60-39.46M
				US-PATENT-CLASS-528-126				US-PATENT-4,300,723				US-PATENT-4,288,982
				US-PATENT-CLASS-528-172	N82-13415*	c 36		NASA-CASE-LAR-12592-1	N82-18389*	c 27		NASA-CASE-ARC-11176-1
				US-PATENT-CLASS-528-173				US-PATENT-APPL-SN-041141				US-PATENT-APPL-SN-129799
				US-PATENT-CLASS-528-180				US-PATENT-CLASS-331-94.5C				US-PATENT-CLASS-528-168
				US-PATENT-CLASS-528-207				US-PATENT-CLASS-331-94.5D				US-PATENT-CLASS-528-399
				US-PATENT-CLASS-528-208				US-PATENT-CLASS-331-94.5P				US-PATENT-CLASS-528-4
				US-PATENT-CLASS-528-210				US-PATENT-4,300,106				US-PATENT-CLASS-528-6
				US-PATENT-CLASS-528-211	N82-13465*	c 43		NASA-CASE-GSC-12032-2				US-PATENT-CLASS-528-7
				US-PATENT-CLASS-528-225				US-PATENT-APPL-SN-578700				US-PATENT-CLASS-568-2
				US-PATENT-CLASS-528-228				US-PATENT-APPL-SN-583219				US-PATENT-CLASS-568-4

		US-PATENT-CLASS-568-5			US-PATENT-CLASS-244-190			US-PATENT-CLASS-428-466
		US-PATENT-4,288,585			US-PATENT-CLASS-318-580			US-PATENT-CLASS-428-493
N82-18401*	c 28	NASA-CASE-ARC-11245-1	N82-23254*	c 09	US-PATENT-4,326,685	N82-24415*	c 33	US-PATENT-4,327,150
		US-PATENT-APPL-SN-088663			NASA-CASE-LAR-12441-1			NASA-CASE-LEW-13282-1
		US-PATENT-CLASS-239-690			US-PATENT-APPL-SN-145210			US-PATENT-APPL-SN-073579
		US-PATENT-CLASS-361-226			US-PATENT-CLASS-73-147			US-PATENT-CLASS-315-3.6
		US-PATENT-CLASS-361-230			US-PATENT-4,327,581			US-PATENT-CLASS-315-3.38
N82-18443*	c 32	US-PATENT-4,303,961	N82-23282*	c 25	NASA-CASE-NPO-14542-1	N82-24416*	c 33	US-PATENT-4,277,721
		NASA-CASE-NPO-14632-1			US-PATENT-APPL-SN-030831			NASA-CASE-LAR-12633-1
		US-PATENT-APPL-SN-092143			US-PATENT-CLASS-166-267			US-PATENT-APPL-SN-135039
		US-PATENT-CLASS-367-100			US-PATENT-CLASS-166-303			US-PATENT-CLASS-358-213
		US-PATENT-CLASS-367-102			US-PATENT-CLASS-208-241			US-PATENT-4,279,001
		US-PATENT-CLASS-367-88			US-PATENT-4,310,049	N82-24417*	c 33	NASA-CASE-FRC-11025-1
N82-18493*	c 33	US-PATENT-4,287,578	N82-23376*	c 32	NASA-CASE-NPO-14361-1			US-PATENT-APPL-SN-115536
		NASA-CASE-FRC-11041-1			US-PATENT-APPL-SN-053572			US-PATENT-CLASS-328-167
		US-PATENT-APPL-SN-126064			US-PATENT-CLASS-343-17.1PF			US-PATENT-CLASS-330-109
		US-PATENT-CLASS-318-561			US-PATENT-CLASS-343-50P			US-PATENT-CLASS-330-290
		US-PATENT-CLASS-318-620			US-PATENT-CLASS-343-7.5			US-PATENT-CLASS-330-294
		US-PATENT-CLASS-318-621			US-PATENT-CLASS-356-5			US-PATENT-CLASS-330-306
		US-PATENT-CLASS-318-622			US-PATENT-CLASS-367-95			US-PATENT-CLASS-364-825
		US-PATENT-4,298,833			US-PATENT-4,320,397			US-PATENT-4,275,453
N82-18494*	c 33	NASA-CASE-FRC-11014-1	N82-24072*	c 74	NASA-CASE-NPO-14813-1	N82-24418*	c 33	NASA-CASE-NPO-14556-1
		US-PATENT-APPL-SN-053652			US-PATENT-APPL-SN-145282			US-PATENT-APPL-SN-023485
		US-PATENT-CLASS-331-113R			US-PATENT-CLASS-250-216			US-PATENT-CLASS-307-415
		US-PATENT-CLASS-363-132			US-PATENT-CLASS-250-235			US-PATENT-CLASS-328-67
		US-PATENT-CLASS-363-17			US-PATENT-4,320,290			US-PATENT-CLASS-331-94.5G
		US-PATENT-CLASS-363-61	N82-24205*	c 08	NASA-CASE-LAR-12412-1			US-PATENT-CLASS-331-94.5PE
		US-PATENT-4,298,926			US-PATENT-APPL-SN-067595			US-PATENT-CLASS-333-20
N82-18601*	c 37	NASA-CASE-LAR-12372-1			US-PATENT-CLASS-244-213			US-PATENT-4,275,317
		US-PATENT-APPL-SN-108107			US-PATENT-CLASS-244-226	N82-24419*	c 33	NASA-CASE-GSC-12415-1
		US-PATENT-CLASS-188-371			US-PATENT-CLASS-244-78			US-PATENT-APPL-SN-043943
		US-PATENT-CLASS-244-110C			US-PATENT-CLASS-74-479			US-PATENT-CLASS-165-32
		US-PATENT-CLASS-280-805			US-PATENT-CLASS-74-480R			US-PATENT-CLASS-62-383
		US-PATENT-CLASS-57-906			US-PATENT-4,272,046			US-PATENT-4,281,708
N82-18686*	c 44	US-PATENT-4,304,320	N82-24212*	c 09	NASA-CASE-ARC-11158-1	N82-24420*	c 33	NASA-CASE-ARC-11116-1
		NASA-CASE-MFS-25287-1			US-PATENT-APPL-SN-053566			US-PATENT-APPL-SN-069485
		US-PATENT-APPL-SN-098570			US-PATENT-CLASS-434-42			US-PATENT-CLASS-324-51
		US-PATENT-CLASS-126-422			US-PATENT-CLASS-434-43			US-PATENT-CLASS-324-52
		US-PATENT-CLASS-126-429			US-PATENT-4,313,726			US-PATENT-4,282,479
		US-PATENT-CLASS-126-430	N82-24272*	c 15	NASA-CASE-ARC-11256-1	N82-24421*	c 33	NASA-CASE-GSC-12518-1
		US-PATENT-4,304,219			US-PATENT-APPL-SN-032305			US-PATENT-APPL-SN-119336
N82-19029*	c 74	NASA-CASE-NPO-15036-1			US-PATENT-CLASS-102-504			US-PATENT-CLASS-310-12
		US-PATENT-APPL-SN-188160			US-PATENT-CLASS-242-123			US-PATENT-CLASS-318-135
		US-PATENT-CLASS-455-610			US-PATENT-4,271,761			US-PATENT-CLASS-335-229
		US-PATENT-CLASS-455-612	N82-24296*	c 24	NASA-CASE-FRC-11026-1			US-PATENT-CLASS-335-266
		US-PATENT-CLASS-455-615			US-PATENT-APPL-SN-043944			US-PATENT-4,315,197
		US-PATENT-CLASS-455-617			US-PATENT-CLASS-228-157	N82-24422*	c 33	NASA-CASE-GSC-12595-1
		US-PATENT-4,287,606			US-PATENT-CLASS-244-119			US-PATENT-APPL-SN-206056
N82-19540*	c 37	NASA-CASE-LEW-12131-3			US-PATENT-CLASS-244-123			US-PATENT-CLASS-336-120
		US-PATENT-APPL-SN-096255			US-PATENT-CLASS-428-593			US-PATENT-CLASS-336-83
		US-PATENT-APPL-SN-801290			US-PATENT-CLASS-428-594			US-PATENT-4,321,572
		US-PATENT-APPL-SN-931090			US-PATENT-CLASS-428-604	N82-24427* #	c 33	NASA-CASE-MSC-18407-1
		US-PATENT-CLASS-415-174			US-PATENT-4,292,375			US-PATENT-APPL-SN-293419
		US-PATENT-CLASS-415-196	N82-24312*	c 25	NASA-CASE-ARC-11097-1	N82-24470*	c 35	NASA-CASE-LAR-12321-1
		US-PATENT-4,135,851			US-PATENT-APPL-SN-891872			US-PATENT-APPL-SN-178195
		US-PATENT-4,207,024			US-PATENT-CLASS-260-386			US-PATENT-CLASS-29-613
		US-PATENT-4,295,786			US-PATENT-CLASS-260-389			US-PATENT-CLASS-338-25
N82-21268*	c 25	NASA-CASE-LEW-12358-2			US-PATENT-CLASS-528-402			US-PATENT-CLASS-338-275
		US-PATENT-APPL-SN-776146			US-PATENT-CLASS-570-123			US-PATENT-CLASS-338-28
		US-PATENT-APPL-SN-848428			US-PATENT-CLASS-570-129			US-PATENT-4,317,102
		US-PATENT-CLASS-264-216	N82-24338*	c 27	US-PATENT-4,307,024	N82-24471*	c 35	NASA-CASE-GSC-12354-1
		US-PATENT-CLASS-264-453			NASA-CASE-ARC-11253-2			US-PATENT-APPL-SN-128229
		US-PATENT-CLASS-264-53			US-PATENT-APPL-SN-028301			US-PATENT-CLASS-250-385
		US-PATENT-CLASS-427-115			US-PATENT-APPL-SN-145284			US-PATENT-CLASS-250-386
		US-PATENT-CLASS-427-244			US-PATENT-CLASS-528-310			US-PATENT-CLASS-250-389
		US-PATENT-CLASS-427-246			US-PATENT-CLASS-528-328			US-PATENT-CLASS-29-25.14
		US-PATENT-4,133,941			US-PATENT-CLASS-528-362			US-PATENT-CLASS-313-348
		US-PATENT-4,309,372			US-PATENT-CLASS-528-401			US-PATENT-CLASS-313-93
N82-21269*	c 25	NASA-CASE-XLA-08914-2			US-PATENT-CLASS-528-422			US-PATENT-4,325,001
		US-PATENT-APPL-SN-662181			US-PATENT-4,273,918	N82-24490*	c 37	NASA-CASE-LAR-12315-1
		US-PATENT-APPL-SN-810576	N82-24339*	c 27	NASA-CASE-ARC-11310-1			US-PATENT-APPL-SN-096257
		US-PATENT-CLASS-210-321.1			US-PATENT-APPL-SN-147700			US-PATENT-CLASS-220-378
		US-PATENT-CLASS-55-158			US-PATENT-CLASS-102-289			US-PATENT-CLASS-277-1
		US-PATENT-4,302,223			US-PATENT-CLASS-244-121			US-PATENT-CLASS-277-105
N82-21587*	c 37	NASA-CASE-NPO-14395-1			US-PATENT-CLASS-244-158A			US-PATENT-CLASS-277-2
		US-PATENT-APPL-SN-961833			US-PATENT-CLASS-244-160			US-PATENT-CLASS-277-204
		US-PATENT-CLASS-104-83			US-PATENT-CLASS-428-192			US-PATENT-CLASS-277-4
		US-PATENT-CLASS-105-1A			US-PATENT-CLASS-428-193			US-PATENT-CLASS-277-59
		US-PATENT-CLASS-105-171			US-PATENT-CLASS-428-241			US-PATENT-CLASS-277-72R
		US-PATENT-CLASS-105-180			US-PATENT-CLASS-428-242			US-PATENT-CLASS-285-37
		US-PATENT-CLASS-105-218R			US-PATENT-CLASS-428-245			US-PATENT-4,309,039
		US-PATENT-CLASS-248-425			US-PATENT-CLASS-428-251	N82-24491*	c 37	NASA-CASE-MSC-18430-1
		US-PATENT-4,301,740			US-PATENT-CLASS-428-257			US-PATENT-APPL-SN-113015
N82-22496* #	c 37	NASA-CASE-ARC-11325-1			US-PATENT-CLASS-428-260			US-PATENT-CLASS-156-84
		US-PATENT-APPL-SN-354126			US-PATENT-CLASS-428-266			US-PATENT-CLASS-156-85
N82-22875*	c 52	NASA-CASE-GSC-12081-2			US-PATENT-CLASS-428-447			US-PATENT-CLASS-156-86
		US-PATENT-APPL-SN-672209			US-PATENT-CLASS-428-448			US-PATENT-CLASS-264-230
		US-PATENT-APPL-SN-796258			US-PATENT-CLASS-428-49			US-PATENT-CLASS-264-342R
		US-PATENT-CLASS-128-1.2			US-PATENT-4,308,309			US-PATENT-4,269,640
		US-PATENT-CLASS-128-778	N82-24340*	c 27	NASA-CASE-MFS-25181-1	N82-24492*	c 37	NASA-CASE-ARC-11110-1
		US-PATENT-CLASS-33-143C			US-PATENT-APPL-SN-218585			US-PATENT-APPL-SN-945040
		US-PATENT-4,294,264			US-PATENT-CLASS-156-315			US-PATENT-CLASS-118-320
N82-23231*	c 04	NASA-CASE-FRC-11052-1			US-PATENT-CLASS-156-338			US-PATENT-CLASS-118-500
		US-PATENT-APPL-SN-129783			US-PATENT-CLASS-428-332			US-PATENT-CLASS-118-503
		US-PATENT-CLASS-244-168			US-PATENT-CLASS-428-339			US-PATENT-CLASS-118-505
		US-PATENT-CLASS-244-175			US-PATENT-CLASS-428-462			US-PATENT-CLASS-427-425

		US-PATENT-4,312,292			US-PATENT-CLASS-340-347DD			US-PATENT-APPL-SN-161254
N82-24493*	c 37	NASA-CASE-NPO-15115-1	N82-26571*	c 33	US-PATENT-4,313,103			US-PATENT-CLASS-427-205
		US-PATENT-APPL-SN-154725			NASA-CASE-LAR-12595-1			US-PATENT-CLASS-427-253
		US-PATENT-CLASS-74-18.1			US-PATENT-APPL-SN-070774			US-PATENT-CLASS-427-405
		US-PATENT-CLASS-74-18.2			US-PATENT-CLASS-156-157			US-PATENT-CLASS-428-938
		US-PATENT-CLASS-92-37			US-PATENT-CLASS-156-272			US-PATENT-CLASS-428-941
		US-PATENT-4,311,057			US-PATENT-CLASS-156-379.7			US-PATENT-4,310,574
N82-24494*	c 37	NASA-CASE-MSC-18526-1			US-PATENT-CLASS-156-71	N82-28442*	c 27	NASA-CASE-NPO-14845-1
		US-PATENT-APPL-SN-119335			US-PATENT-CLASS-219-10.41			US-PATENT-APPL-SN-219680
		US-PATENT-CLASS-285-159			US-PATENT-CLASS-219-10.53			US-PATENT-CLASS-264-5
		US-PATENT-CLASS-285-401			US-PATENT-CLASS-219-545			US-PATENT-CLASS-425-6
		US-PATENT-CLASS-285-89			US-PATENT-CLASS-428-247			US-PATENT-CLASS-65-142
		US-PATENT-CLASS-403-315			US-PATENT-4,313,777			US-PATENT-CLASS-65-21.4
		US-PATENT-4,320,911	N82-26572*	c 33	NASA-CASE-LAR-12465-1			US-PATENT-CLASS-65-22
N82-24639*	c 44	NASA-CASE-MFS-23830-1			US-PATENT-APPL-SN-106136			US-PATENT-4,313,745
		US-PATENT-APPL-SN-129780			US-PATENT-CLASS-361-283	N82-28545*	c 33	NASA-CASE-MFS-23776-1
		US-PATENT-CLASS-415-DIG.8			US-PATENT-CLASS-367-181			US-PATENT-APPL-SN-145272
		US-PATENT-CLASS-415-2R			US-PATENT-CLASS-73-724			US-PATENT-CLASS-250-214
		US-PATENT-4,309,146			US-PATENT-4,310,906			US-PATENT-CLASS-250-221
N82-24640*	c 44	NASA-CASE-LAR-12148-1	N82-26628*	c 35	NASA-CASE-LAR-12474-1			US-PATENT-4,319,133
		US-PATENT-APPL-SN-051275			US-PATENT-APPL-SN-171934	N82-28604*	c 35	NASA-CASE-LAR-12709-1
		US-PATENT-CLASS-60-516			US-PATENT-CLASS-352-171			US-PATENT-APPL-SN-235796
		US-PATENT-CLASS-60-641.14			US-PATENT-CLASS-354-217			US-PATENT-CLASS-204-195B
		US-PATENT-4,326,381			US-PATENT-CLASS-354-289			US-PATENT-CLASS-435-291
N82-24641*	c 44	NASA-CASE-GSC-10019-1			US-PATENT-4,311,378			US-PATENT-CLASS-435-34
		US-PATENT-APPL-SN-680048	N82-26631* #	c 35	NASA-CASE-MFS-25707-1			US-PATENT-CLASS-435-206
		US-PATENT-CLASS-136-6			US-PATENT-APPL-SN-359627			US-PATENT-4,335,206
		US-PATENT-3,498,841	N82-26672*	c 37	NASA-CASE-MSC-18538-1	N82-28616*	c 36	NASA-CASE-NPO-14782-1
N82-24642*	c 44	NASA-CASE-GSC-10350-1			US-PATENT-APPL-SN-138944			US-PATENT-APPL-SN-119339
		US-PATENT-APPL-SN-679980			US-PATENT-CLASS-30-102			US-PATENT-CLASS-330-4.3
		US-PATENT-CLASS-136-6			US-PATENT-4,305,205			US-PATENT-CLASS-372-56
		US-PATENT-3,498,840	N82-26673* #	c 37	NASA-CASE-MSC-18742-1			US-PATENT-CLASS-372-58
N82-24643*	c 44	NASA-CASE-GSC-10017-1			US-PATENT-APPL-SN-293417			US-PATENT-CLASS-372-82
		US-PATENT-APPL-SN-679996	N82-26674* #	c 37	NASA-CASE-LEW-13268-2			US-PATENT-4,328,464
		US-PATENT-CLASS-136-6			US-PATENT-APPL-SN-325931	N82-28780*	c 44	NASA-CASE-NPO-13689-4
		US-PATENT-3,519,484			US-PATENT-CLASS-30-102			US-PATENT-APPL-SN-225501
N82-24644*	c 44	NASA-CASE-GSC-10018-1	N82-26776*	c 44	NASA-CASE-NPO-15183-1			US-PATENT-APPL-SN-597430
		US-PATENT-APPL-SN-679987			US-PATENT-APPL-SN-173519			US-PATENT-APPL-SN-683073
		US-PATENT-CLASS-136-6			US-PATENT-CLASS-62-148			US-PATENT-APPL-SN-837513
		US-PATENT-3,519,483			US-PATENT-CLASS-62-235.1			US-PATENT-APPL-SN-93714
N82-24645*	c 44	NASA-CASE-GSC-10349-1			US-PATENT-CLASS-62-238.3			US-PATENT-CLASS-148-175
		US-PATENT-APPL-SN-658999			US-PATENT-CLASS-62-239			US-PATENT-CLASS-148-175
		US-PATENT-CLASS-136-148			US-PATENT-CLASS-62-244			US-PATENT-CLASS-29-572
		US-PATENT-3,506,496			US-PATENT-CLASS-62-476			US-PATENT-CLASS-427-531
N82-24779*	c 47	NASA-CASE-KSC-11099-1	N82-26777*	c 44	US-PATENT-4,307,575			US-PATENT-CLASS-427-74
		US-PATENT-APPL-SN-043945			NASA-CASE-NPO-15179-1			US-PATENT-4,278,830
		US-PATENT-CLASS-324-72			US-PATENT-APPL-SN-185867			US-PATENT-4,321,099
		US-PATENT-CLASS-324-77R			US-PATENT-CLASS-136-261	N82-29002*	c 54	NASA-CASE-XMS-03694-1
		US-PATENT-4,272,720			US-PATENT-CLASS-136-290			US-PATENT-APPL-SN-394280
N82-24839*	c 60	NASA-CASE-FRC-11042-1			US-PATENT-CLASS-148-1.5			US-PATENT-CLASS-165-46
		US-PATENT-APPL-SN-129778			US-PATENT-CLASS-219-121LN			US-PATENT-3,295,594
		US-PATENT-CLASS-254-131			US-PATENT-CLASS-357-30	N82-29013*	c 60	NASA-CASE-MSC-18498-1
		US-PATENT-CLASS-29-267			US-PATENT-CLASS-357-63			US-PATENT-APPL-SN-173518
		US-PATENT-CLASS-29-764			US-PATENT-4,311,870			US-PATENT-CLASS-244-194
		US-PATENT-4,307,510	N82-26987*	c 54	NASA-CASE-ARC-11314-1			US-PATENT-CLASS-318-564
N82-25484* #	c 35	NASA-CASE-NPO-15494-1			US-PATENT-APPL-SN-168943			US-PATENT-CLASS-371-68
		US-PATENT-APPL-SN-325885			US-PATENT-CLASS-73-862.08			US-PATENT-4,327,437
N82-26277*	c 05	NASA-CASE-FRC-11007-2			US-PATENT-4,311,055	N82-29330*	c 09	NASA-CASE-KSC-11042-1
		US-PATENT-APPL-SN-043911	N82-27086* #	c 71	NASA-CASE-NPO-15562-1			US-PATENT-APPL-SN-154663
		US-PATENT-CLASS-244-12.2			US-PATENT-APPL-SN-364097			US-PATENT-APPL-SN-862878
		US-PATENT-CLASS-244-23C	N82-27558*	c 32	NASA-CASE-MSC-18532-1			US-PATENT-CLASS-53-429
		US-PATENT-CLASS-244-34A			US-PATENT-APPL-SN-172099			US-PATENT-CLASS-8-150
		US-PATENT-CLASS-244-93			US-PATENT-CLASS-343-789			US-PATENT-4,244,810
		US-PATENT-4,307,856			US-PATENT-CLASS-343-895			US-PATENT-4,313,291
N82-26293*	c 07	NASA-CASE-LEW-13199-1	N82-28279*	c 05	US-PATENT-4,315,266	N82-29358*	c 23	NASA-CASE-LAR-10423-1
		US-PATENT-APPL-SN-025301			NASA-CASE-LAR-12175-1			US-PATENT-APPL-SN-877445
		US-PATENT-CLASS-244-110B			US-PATENT-APPL-SN-079913			US-PATENT-CLASS-260-65
		US-PATENT-CLASS-60-226A			US-PATENT-CLASS-244-48			US-PATENT-3,657,190
		US-PATENT-4,278,220	N82-28353*	c 23	US-PATENT-4,330,100	N82-29362*	c 24	NASA-CASE-MSC-18223-1
N82-26384*	c 24	NASA-CASE-LAR-11688-1			NASA-CASE-ARC-11267-2			US-PATENT-APPL-SN-219681
		US-PATENT-APPL-SN-878540			US-PATENT-APPL-SN-163838			US-PATENT-CLASS-128-280
		US-PATENT-CLASS-244-119			US-PATENT-CLASS-528-401			US-PATENT-CLASS-128-283
		US-PATENT-CLASS-244-123			US-PATENT-CLASS-528-422			US-PATENT-CLASS-128-284
		US-PATENT-CLASS-244-132			US-PATENT-CLASS-547-131			US-PATENT-CLASS-128-285
		US-PATENT-4,310,132			US-PATENT-CLASS-564-229			US-PATENT-CLASS-128-288
N82-26387* #	c 24	NASA-CASE-MSC-18934-3			US-PATENT-4,316,035			US-PATENT-CLASS-128-291
		US-PATENT-APPL-SN-361711	N82-28368*	c 25	NASA-CASE-NPO-15015-1			US-PATENT-CLASS-128-296
		US-PATENT-CLASS-244-119			US-PATENT-APPL-SN-145207			US-PATENT-CLASS-428-283
N82-26396*	c 25	NASA-CASE-LAR-12705-1			US-PATENT-CLASS-203-12			US-PATENT-CLASS-428-284
		US-PATENT-APPL-SN-135058			US-PATENT-CLASS-422-186			US-PATENT-CLASS-428-286
		US-PATENT-CLASS-252-514			US-PATENT-CLASS-422-198			US-PATENT-CLASS-428-287
		US-PATENT-4,311,615			US-PATENT-CLASS-423-235			US-PATENT-CLASS-428-288
N82-26568*	c 33	NASA-CASE-LEW-12296-1			US-PATENT-CLASS-423-539			US-PATENT-4,338,371
		US-PATENT-APPL-SN-122966			US-PATENT-CLASS-423-540	N82-29370*	c 25	NASA-CASE-XGS-05584-1
		US-PATENT-CLASS-315-3.5			US-PATENT-CLASS-423-542			NASA-CASE-XGS-07375-1
		US-PATENT-CLASS-315-3.6			US-PATENT-CLASS-423-579			NASA-CASE-XGS-07397-1
		US-PATENT-CLASS-330-43			US-PATENT-CLASS-423-648R			US-PATENT-APPL-SN-446071
		US-PATENT-4,315,194			US-PATENT-4,314,984			US-PATENT-CLASS-106-197
N82-26569*	c 33	NASA-CASE-MFS-23828-1	N82-28440*	c 27	NASA-CASE-LEW-13120-1			US-PATENT-3,442,674
		US-PATENT-APPL-SN-111436			US-PATENT-APPL-SN-218587	N82-29371*	c 25	NASA-CASE-NPO-14902-1
		US-PATENT-CLASS-318-254			US-PATENT-CLASS-204-192E			US-PATENT-APPL-SN-156790
		US-PATENT-CLASS-318-806			US-PATENT-CLASS-204-192EC			US-PATENT-CLASS-201-17
		US-PATENT-CLASS-318-812			US-PATENT-CLASS-264-22			US-PATENT-CLASS-44-1SR
		US-PATENT-CLASS-318-830			US-PATENT-CLASS-264-220			US-PATENT-4,325,707
		US-PATENT-4,313,077			US-PATENT-CLASS-428-141	N82-29415*	c 26	NASA-CASE-LEW-13169-1
N82-26570*	c 33	NASA-CASE-LAR-12659-1			US-PATENT-4,329,385			US-PATENT-APPL-SN-102003
		US-PATENT-APPL-SN-171928	N82-28441*	c 27	NASA-CASE-LEW-13343-1			US-PATENT-CLASS-204-192C

N82-29451*	c 27	US-PATENT-4,336,117 NASA-CASE-HQN-10274-1 US-PATENT-APPL-SN-683465 US-PATENT-CLASS-106-52 US-PATENT-CLASS-3,573,078	N82-29863*	c 52	NASA-CASE-GSC-12560-1 US-PATENT-APPL-SN-153246 US-PATENT-CLASS-128-421 US-PATENT-4,308,868	N82-32732*	c 37	NASA-CASE-LAR-12482-1 US-PATENT-APPL-SN-100611 US-PATENT-CLASS-403-217 US-PATENT-CLASS-403-317 US-PATENT-CLASS-403-331 US-PATENT-CLASS-403-340 US-PATENT-CLASS-52-81 US-PATENT-4,340,318
N82-29452*	c 27	NASA-CASE-HQN-10931-2 US-PATENT-APPL-SN-246295 US-PATENT-APPL-SN-874674 US-PATENT-CLASS-106-50 US-PATENT-CLASS-106-52 US-PATENT-CLASS-106-54 US-PATENT-3,785,836	N82-30071*	c 74	NASA-CASE-MSC-18627-1 US-PATENT-APPL-SN-186881 US-PATENT-CLASS-250-226 US-PATENT-CLASS-250-231R US-PATENT-CLASS-374-162R US-PATENT-4,338,516	N82-32841*	c 44	NASA-CASE-LAR-12513-1 US-PATENT-APPL-SN-161256 US-PATENT-CLASS-250-330 US-PATENT-CLASS-250-370 US-PATENT-4,331,873
N82-29453*	c 27	NASA-CASE-LEW-13268-1 US-PATENT-APPL-SN-145209 US-PATENT-CLASS-415-174 US-PATENT-CLASS-427-34 US-PATENT-CLASS-427-423 US-PATENT-4,336,276	N82-30105*	c 76	NASA-CASE-NPO-14831-1 US-PATENT-APPL-SN-233269 US-PATENT-CLASS-156-602 US-PATENT-CLASS-156-608 US-PATENT-CLASS-422-246 US-PATENT-4,330,359	N82-33288*	c 85	NASA-CASE-FRC-11058-1 US-PATENT-APPL-SN-175453 US-PATENT-CLASS-105-2R US-PATENT-CLASS-244-53B US-PATENT-CLASS-296-1S US-PATENT-CLASS-296-24C US-PATENT-CLASS-296-91 US-PATENT-4,343,506
N82-29454*	c 27	NASA-CASE-HQN-10328-2 US-PATENT-APPL-SN-246294 US-PATENT-APPL-SN-874673 US-PATENT-CLASS-106-50 US-PATENT-CLASS-106-52 US-PATENT-CLASS-106-54 US-PATENT-3,811,901	N82-30371*	c 26	NASA-CASE-LEW-13169-2 US-PATENT-APPL-SN-102003 US-PATENT-APPL-SN-191746 US-PATENT-CLASS-204-192C US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-472 US-PATENT-4,341,843	N82-33520*	c 27	NASA-CASE-KSC-11097-1 US-PATENT-APPL-SN-172100 US-PATENT-CLASS-427-140 US-PATENT-CLASS-427-372.2 US-PATENT-CLASS-427-397.7 US-PATENT-4,330,572
N82-29455*	c 27	NASA-CASE-HQN-10595-1 US-PATENT-APPL-SN-259056 US-PATENT-APPL-SN-874675 US-PATENT-CLASS-106-50 US-PATENT-CLASS-106-52 US-PATENT-3,947,281	N82-31505*	c 26	NASA-CASE-LEW-13339-1 US-PATENT-APPL-SN-199769 US-PATENT-CLASS-148-428 US-PATENT-CLASS-420-445 US-PATENT-CLASS-420-551 US-PATENT-CLASS-420-588 US-PATENT-4,340,425	N82-33521*	c 27	NASA-CASE-LEW-13028-1 US-PATENT-APPL-SN-218588 US-PATENT-CLASS-204-192E US-PATENT-CLASS-204-192EC US-PATENT-CLASS-204-38B US-PATENT-CLASS-428-141 US-PATENT-4,344,996
N82-29456*	c 27	NASA-CASE-MSC-18741-1 US-PATENT-APPL-SN-217336 US-PATENT-CLASS-156-329 US-PATENT-CLASS-244-121 US-PATENT-CLASS-244-158A US-PATENT-CLASS-244-160 US-PATENT-CLASS-244-163 US-PATENT-CLASS-428-212 US-PATENT-CLASS-428-218 US-PATENT-CLASS-428-283 US-PATENT-CLASS-428-289 US-PATENT-CLASS-428-307.7 US-PATENT-CLASS-428-311.5 US-PATENT-CLASS-428-312.6 US-PATENT-CLASS-428-317.9 US-PATENT-CLASS-428-325 US-PATENT-CLASS-428-446 US-PATENT-CLASS-428-49 US-PATENT-4,338,368	N82-31583*	c 32	NASA-CASE-MSC-16462-1 US-PATENT-APPL-SN-900841 US-PATENT-CLASS-178-22.16 US-PATENT-CLASS-178-22.17 US-PATENT-CLASS-364-717 US-PATENT-CLASS-375-106 US-PATENT-4,341,925	N82-33523* #	c 27	NASA-CASE-ARC-14408-1 US-PATENT-APPL-SN-403371 US-PATENT-CLASS-15670-1 US-PATENT-APPL-SN-409679
			N82-31659*	c 35	NASA-CASE-LAR-12363-1 US-PATENT-APPL-SN-191748 US-PATENT-CLASS-250-332 US-PATENT-CLASS-250-370 US-PATENT-CLASS-29-576J US-PATENT-CLASS-29-576S US-PATENT-CLASS-29-620 US-PATENT-4,341,012	N82-33634* #	c 33	NASA-CASE-MFS-15670-1 US-PATENT-APPL-SN-409679
			N82-31690* #	c 37	NASA-CASE-MSC-20304-1 US-PATENT-APPL-SN-393585	N82-33996*	c 52	NASA-CASE-NPO-14549-2 US-PATENT-APPL-SN-149526 US-PATENT-APPL-SN-918705 US-PATENT-CLASS-128-422 US-PATENT-CLASS-128-784 US-PATENT-CLASS-128-804 US-PATENT-4,346,715
			N82-31764*	c 44	NASA-CASE-LEW-13400-1 US-PATENT-APPL-SN-219677 US-PATENT-CLASS-136-249 US-PATENT-CLASS-357-30 US-PATENT-4,341,918	N83-10040*	c 06	NASA-CASE-NPO-15351-1 US-PATENT-APPL-SN-224231 US-PATENT-CLASS-343-100ME US-PATENT-CLASS-374-122 US-PATENT-CLASS-374-123 US-PATENT-CLASS-73-170R US-PATENT-CLASS-73-178R US-PATENT-4,346,595
N82-29538*	c 33	NASA-CASE-NPO-15066-1 US-PATENT-APPL-SN-191744 US-PATENT-CLASS-179-186F US-PATENT-CLASS-340-825.89 US-PATENT-CLASS-370-67 US-PATENT-4,331,956	N82-32366*	c 07	NASA-CASE-LEW-12938-1 US-PATENT-APPL-SN-060449 US-PATENT-CLASS-415-145 US-PATENT-CLASS-415-178 US-PATENT-CLASS-60-39.07 US-PATENT-CLASS-60-39.29 US-PATENT-CLASS-60-726 US-PATENT-4,329,114	N83-10117*	c 24	NASA-CASE-LEW-12919-1 US-PATENT-APPL-SN-264378 US-PATENT-CLASS-204-192E US-PATENT-CLASS-313-106 US-PATENT-CLASS-313-107 US-PATENT-CLASS-315-538 US-PATENT-4,349,424
N82-29539*	c 33	NASA-CASE-NPO-14311-1 US-PATENT-APPL-SN-969762 US-PATENT-CLASS-328-166 US-PATENT-CLASS-455-202 US-PATENT-CLASS-455-208 US-PATENT-CLASS-455-234 US-PATENT-CLASS-455-306 US-PATENT-4,336,616	N82-32373*	c 08	NASA-CASE-LAR-12468-1 US-PATENT-APPL-SN-135057 US-PATENT-CLASS-244-118.1 US-PATENT-CLASS-244-137R US-PATENT-CLASS-89-1.5G US-PATENT-4,343,447	N83-10126*	c 25	NASA-CASE-MFS-25426-1 US-PATENT-APPL-SN-254575 US-PATENT-CLASS-204-299R US-PATENT-4,349,429
N82-29589*	c 36	NASA-CASE-NPO-15111-1 US-PATENT-APPL-SN-150040 US-PATENT-CLASS-350-358 US-PATENT-4,332,441	N82-32417*	c 24	NASA-CASE-LAR-12620-1 US-PATENT-APPL-SN-072857 US-PATENT-CLASS-244-132 US-PATENT-CLASS-244-158A US-PATENT-CLASS-428-594 US-PATENT-CLASS-428-604 US-PATENT-CLASS-428-607 US-PATENT-CLASS-428-608 US-PATENT-4,344,591	N83-10170*	c 26	NASA-CASE-LEW-12941-1 US-PATENT-APPL-SN-210632 US-PATENT-CLASS-29-458 US-PATENT-CLASS-29-521 US-PATENT-CLASS-403-282 US-PATENT-4,349,954
N82-29708*	c 44	NASA-CASE-LEW-13171-1 US-PATENT-APPL-SN-238790 US-PATENT-CLASS-429-144 US-PATENT-CLASS-429-251 US-PATENT-CLASS-429-254 US-PATENT-4,331,746	N82-32659*	c 35	NASA-CASE-GSC-12587-1 US-PATENT-APPL-SN-173524 US-PATENT-CLASS-250-369 US-PATENT-4,345,153	N83-10345*	c 33	NASA-CASE-MFS-25208-1 US-PATENT-APPL-SN-280154 US-PATENT-CLASS-318-803 US-PATENT-CLASS-363-87 US-PATENT-4,351,022
N82-29709*	c 44	NASA-CASE-LEW-13401-1 US-PATENT-APPL-SN-219678 US-PATENT-CLASS-136-249 US-PATENT-CLASS-148-1.5 US-PATENT-CLASS-29-572 US-PATENT-CLASS-357-30 US-PATENT-4,335,503	N82-32712*	c 36	NASA-CASE-LAR-12328-1 US-PATENT-APPL-SN-073477 US-PATENT-CLASS-350-453 US-PATENT-CLASS-356-28.5 US-PATENT-4,346,990	N83-10494*	c 44	NASA-CASE-LEW-13131-1 US-PATENT-APPL-SN-246772 US-PATENT-CLASS-204-56R US-PATENT-4,350,574
N82-29710*	c 44	NASA-CASE-NPO-15269-1 US-PATENT-APPL-SN-220214 US-PATENT-CLASS-204-290F US-PATENT-CLASS-204-290R US-PATENT-CLASS-429-193 US-PATENT-CLASS-429-33 US-PATENT-CLASS-429-40 US-PATENT-4,331,742	N82-32730*	c 37	NASA-CASE-GSC-12584-1 US-PATENT-APPL-SN-182879 US-PATENT-CLASS-125-23R US-PATENT-CLASS-225-103 US-PATENT-4,343,287	N83-10501*	c 44	NASA-CASE-NPO-15021-1 US-PATENT-APPL-SN-126063 US-PATENT-CLASS-422-200 US-PATENT-CLASS-422-202 US-PATENT-CLASS-422-224 US-PATENT-CLASS-55-204 US-PATENT-4,343,772
N82-29862*	c 52	NASA-CASE-LAR-12471-1 US-PATENT-APPL-SN-178193 US-PATENT-CLASS-128-62A US-PATENT-CLASS-433-118 US-PATENT-CLASS-433-125 US-PATENT-CLASS-433-86 US-PATENT-4,331,422	N82-32731*	c 37	NASA-CASE-MFS-23846-1 US-PATENT-APPL-SN-168944 US-PATENT-CLASS-294-116 US-PATENT-CLASS-414-222 US-PATENT-CLASS-414-226 US-PATENT-CLASS-414-739 US-PATENT-4,343,584	N83-10900*	c 74	NASA-CASE-GSC-12608-1 US-PATENT-APPL-SN-195228 US-PATENT-CLASS-350-170 US-PATENT-CLASS-350-286

N83-13171*	c 24	US-PATENT-4,350,410	N83-18975*	c 32	US-PATENT-CLASS-428-920	N83-20996*	c 18	US-PATENT-CLASS-343-DIG2
		NASA-CASE-MSC-18737-1			US-PATENT-4,373,003			US-PATENT-4,377,266
		US-PATENT-APPL-SN-266256			NASA-CASE-NPO-14998-1			NASA-CASE-LEW-13269-1
		US-PATENT-CLASS-427-379			US-PATENT-APPL-SN-195547			US-PATENT-APPL-SN-242795
		US-PATENT-CLASS-427-384			US-PATENT-CLASS-250-203R			US-PATENT-CLASS-415-174
		US-PATENT-CLASS-427-387			US-PATENT-CLASS-343-100CL			US-PATENT-CLASS-415-197
N83-13172*	c 24	US-PATENT-CLASS-428-218	N83-18996*	c 33	US-PATENT-CLASS-343-5CM	N83-21311*	c 35	US-PATENT-4,377,371
		US-PATENT-4,358,486			US-PATENT-CLASS-364-822			NASA-CASE-LAR-12469-1
		NASA-CASE-MSC-18736-1			US-PATENT-CLASS-364-861			US-PATENT-APPL-SN-195223
		US-PATENT-APPL-SN-266254			US-PATENT-4,371,946			US-PATENT-CLASS-250-338
		US-PATENT-CLASS-244-158A			NASA-CASE-NPO-14567-1			US-PATENT-CLASS-250-372
		US-PATENT-CLASS-427-140			US-PATENT-APPL-SN-038550			US-PATENT-CLASS-250-474.1
N83-13187*	c 25	US-PATENT-CLASS-427-292	N83-19015*	c 34	US-PATENT-APPL-SN-180230	N83-21503*	c 44	US-PATENT-CLASS-356-51
		US-PATENT-CLASS-427-302			US-PATENT-CLASS-250-311			US-PATENT-4,372,680
		US-PATENT-CLASS-427-379			US-PATENT-CLASS-324-73R			NASA-CASE-MSC-18723-1
		US-PATENT-CLASS-427-384			US-PATENT-CLASS-356-394			US-PATENT-APPL-SN-234223
		US-PATENT-CLASS-427-387			US-PATENT-4,358,732			US-PATENT-CLASS-73-818
		US-PATENT-CLASS-428-63			NASA-CASE-MFS-25282-1			US-PATENT-4,377,089
N83-13188*	c 25	US-PATENT-4,358,480	N83-19091*	c 37	US-PATENT-APPL-SN-263828	N83-21504*	c 44	NASA-CASE-LAR-12458-1
		NASA-CASE-MFS-25306-1			US-PATENT-CLASS-378-2			US-PATENT-APPL-SN-274705
		US-PATENT-APPL-SN-309293			US-PATENT-CLASS-378-43			US-PATENT-CLASS-73-147
		US-PATENT-CLASS-204-280R			US-PATENT-4,370,750			US-PATENT-CLASS-732,159
		US-PATENT-CLASS-204-299R			NASA-CASE-LAR-12361-1			NASA-CASE-LAR-12720-1
		US-PATENT-4,358,358			US-PATENT-APPL-SN-182880			US-PATENT-APPL-SN-274706
N83-13323*	c 32	US-PATENT-APPL-SN-272234	N83-19596*	c 74	US-PATENT-CLASS-411-353	N83-21785*	c 52	US-PATENT-CLASS-73,147
		US-PATENT-CLASS-264-104			US-PATENT-CLASS-411-517			US-PATENT-4,372,159
		US-PATENT-CLASS-429-206			US-PATENT-4,371,301			NASA-CASE-LEW-13107-1
		US-PATENT-CLASS-429-253			NASA-CASE-LEW-12253-1			US-PATENT-APPL-SN-272407
		US-PATENT-CLASS-525-61			US-PATENT-APPL-SN-243682			US-PATENT-CLASS-604-280
		US-PATENT-4,357,402			US-PATENT-CLASS-165-104.26			US-PATENT-CLASS-604-8
N83-13579*	c 44	US-PATENT-CLASS-165-134R	N83-19597*	c 74	US-PATENT-CLASS-29-157.3H	N83-21949*	c 74	US-PATENT-4,377,169
		US-PATENT-CLASS-357-30			US-PATENT-4,372,377			NASA-CASE-ARC-11354-1
		US-PATENT-CLASS-427-88			NASA-CASE-NPO-14864-1			US-PATENT-APPL-SN-282192
		US-PATENT-CLASS-427-89			US-PATENT-APPL-SN-061822			US-PATENT-CLASS-356-357
		US-PATENT-CLASS-427-90			US-PATENT-CLASS-250-227			US-PATENT-CLASS-73-147
		US-PATENT-CLASS-427-91			US-PATENT-CLASS-250-332			US-PATENT-4,377,343
N83-13978*	c 74	US-PATENT-CLASS-250-340	N83-19737*	c 05	US-PATENT-CLASS-250-340	N83-24572* #	c 25	NASA-CASE-NPO-16135-1
		US-PATENT-4,335,196			US-PATENT-CLASS-250-350			US-PATENT-APPL-SN-470114
		NASA-CASE-ARC-11311-1			US-PATENT-CLASS-250-351			NASA-CASE-LAR-12363-2
		US-PATENT-APPL-SN-219640			US-PATENT-CLASS-350-353			US-PATENT-APPL-SN-377892
		US-PATENT-CLASS-350-287			US-PATENT-4,262,198			US-PATENT-CLASS-250-388
		US-PATENT-CLASS-350-486			NASA-CASE-FRC-11065-1			US-PATENT-4,379,970
N83-14692*	c 44	US-PATENT-4,355,870	N83-19900*	c 27	US-PATENT-APPL-SN-248744	N83-24828*	c 35	NASA-CASE-MFS-25509-1
		NASA-CASE-LEW-12892-1			US-PATENT-CASE-244-121			US-PATENT-APPL-SN-297486
		US-PATENT-APPL-SN-264380			US-PATENT-CASE-244-129.4			US-PATENT-CLASS-156-DIG.62
		US-PATENT-CLASS-136-255			US-PATENT-CASE-292-254			US-PATENT-CLASS-34-57A
		US-PATENT-CLASS-136-256			US-PATENT-4,375,281			US-PATENT-CLASS-432-227
		US-PATENT-CLASS-136-259			NASA-CASE-NPO-14857-1			US-PATENT-CLASS-432-58
N83-14693*	c 44	US-PATENT-4,360,701	N83-19947*	c 31	US-PATENT-APPL-SN-158530	N83-25217*	c 45	US-PATENT-4,378,209
		NASA-CASE-MSC-18794-1			US-PATENT-CLASS-523-205			NASA-CASE-NPO-15220-1
		US-PATENT-APPL-SN-238785			US-PATENT-CLASS-524-436			US-PATENT-APPL-SN-246777
		US-PATENT-CLASS-417-399			US-PATENT-CLASS-524-437			US-PATENT-CLASS-220-335
		US-PATENT-CLASS-74-110			US-PATENT-CLASS-524-503			US-PATENT-CLASS-73-863.31
		US-PATENT-4,360,325			US-PATENT-CLASS-524-564			US-PATENT-CLASS-73-863.83
N83-16626*	c 33	US-PATENT-4,363,242	N83-19968*	c 32	US-PATENT-CLASS-524-786	N83-25346*	c 52	US-PATENT-CLASS-73-864.63
		NASA-CASE-LAR-12772-1			US-PATENT-4,373,039			US-PATENT-4,377,949
		US-PATENT-APPL-SN-199767			NASA-CASE-NPO-15197-1			NASA-CASE-NPO-15197-1
		US-PATENT-CLASS-73-579			NASA-CASE-NPO-14035-1			US-PATENT-APPL-SN-263957
		US-PATENT-CLASS-73-597			US-PATENT-APPL-SN-322316			US-PATENT-CLASS-128-303B
		US-PATENT-CLASS-73-629			US-PATENT-CLASS-204-129.55			US-PATENT-CLASS-128-774
N83-16633* #	c 33	US-PATENT-CLASS-73-761	N83-20154* #	c 37	US-PATENT-4,375,396	N83-25378*	c 60	US-PATENT-CLASS-128-782
		US-PATENT-4,363,242			NASA-CASE-NPO-14735-1			US-PATENT-4,378,813
		NASA-CASE-LAR-12847-1			US-PATENT-APPL-SN-858767			NASA-CASE-GSC-12223-1
		US-PATENT-APPL-SN-393456			US-PATENT-CLASS-343-100CL			US-PATENT-APPL-SN-041143
		US-PATENT-CLASS-15213-1			US-PATENT-CLASS-343-5CM			US-PATENT-CLASS-364-200
		US-PATENT-APPL-SN-280153			US-PATENT-CLASS-343-9PS			US-PATENT-4,380,046
N83-17045*	c 51	US-PATENT-CLASS-47-58	N83-20280*	c 39	US-PATENT-4,371,873	N83-25789*	c 24	NASA-CASE-ARC-11261-1
		US-PATENT-CLASS-71-98			NASA-CASE-MFS-25807			US-PATENT-APPL-SN-282129
		US-PATENT-4,363,188			US-PATENT-APPL-SN-460733			US-PATENT-CLASS-423-447.2
		NASA-CASE-LAR-12883-1			NASA-CASE-MSC-18929-1			US-PATENT-CLASS-423-447.6
		US-PATENT-APPL-SN-267935			US-PATENT-APPL-SN-198093			US-PATENT-CLASS-423-447.7
		US-PATENT-CLASS-73-147			US-PATENT-CLASS-128-782			US-PATENT-4,385,043
N83-17235*	c 71	US-PATENT-4,363,237	N83-20789*	c 76	US-PATENT-CLASS-358-105	N83-26078*	c 37	NASA-CASE-GSC-12643-1
		NASA-CASE-MFS-25843-1			US-PATENT-CLASS-364-413			US-PATENT-APPL-SN-238786
		US-PATENT-APPL-SN-441215			US-PATENT-CLASS-364-522			US-PATENT-CLASS-417-15
		NASA-CASE-MSC-18832-1			US-PATENT-CLASS-364-559			US-PATENT-CLASS-47-26
		US-PATENT-APPL-SN-365950			US-PATENT-CLASS-73-379			US-PATENT-4,381,174
		US-PATENT-CLASS-428-241			US-PATENT-4,375,674			NASA-CASE-GSC-12636-1
N83-17588* #	c 20	US-PATENT-CLASS-428-244	N83-20944*	c 07	US-PATENT-CLASS-156-625	N83-27058*	c 31	US-PATENT-APPL-SN-173520
		US-PATENT-CLASS-428-245			US-PATENT-APPL-SN-325933			US-PATENT-CLASS-125-20
		US-PATENT-CLASS-428-260			US-PATENT-CLASS-148-173			US-PATENT-CLASS-408-1R
		US-PATENT-CLASS-428-331			US-PATENT-CLASS-148-175			US-PATENT-CLASS-408-61
		US-PATENT-CLASS-428-368			US-PATENT-CLASS-156-608			US-PATENT-CLASS-409-131
		US-PATENT-CLASS-428-902			US-PATENT-CLASS-156-624			US-PATENT-4,383,785
N83-18908*	c 27	US-PATENT-CLASS-428-913	N83-20944*	c 07	US-PATENT-CLASS-156-635	N83-27085*	c 32	NASA-CASE-NPO-15401-1
		US-PATENT-CLASS-428-913			US-PATENT-CLASS-156-654			US-PATENT-APPL-SN-259210
		US-PATENT-CLASS-428-913			US-PATENT-CLASS-156-662			US-PATENT-CLASS-333-22F
		US-PATENT-CLASS-428-913			US-PATENT-4,373,989			US-PATENT-CLASS-333-254
		US-PATENT-CLASS-428-913			NASA-CASE-MFS-23981-1			US-PATENT-4,382,239
		US-PATENT-CLASS-428-913			US-PATENT-APPL-SN-231543			NASA-CASE-NPO-15358-1

N83-27184*	c 35	US-PATENT-APPL-SN-200634	N83-29032*	c 74	US-PATENT-4,386,157	N83-31895*	c 31	US-PATENT-CLASS-428-678
		US-PATENT-CLASS-415-115			NASA-CASE-KSC-11104-1			US-PATENT-4,335,190
		US-PATENT-CLASS-416-1			US-PATENT-APPL-SN-153245			NASA-CASE-MFS-25134-1
N83-27344*	c 44	US-PATENT-CLASS-416-97R	N83-29303*	c 18	US-PATENT-CLASS-350-96.16	N83-31896*	c 31	US-PATENT-APPL-SN-195226
		US-PATENT-4,384,823			US-PATENT-CLASS-455-612			US-PATENT-CLASS-24-214
		NASA-CASE-NPO-15292-1			US-PATENT-4,381,881			US-PATENT-CLASS-244-159
N83-27569*	c 51	US-PATENT-APPL-SN-207135	N83-29324*	c 25	NASA-CASE-MFS-25403-1	N83-31897*	c 31	US-PATENT-4,381,583
		US-PATENT-CLASS-250-282			US-PATENT-APPL-SN-248745			NASA-CASE-NPO-14596-3
		US-PATENT-CLASS-250-288			US-PATENT-CLASS-244-115			US-PATENT-APPL-SN-303671
N83-27577*	c 52	US-PATENT-CLASS-250-423	N83-29388*	c 27	US-PATENT-CLASS-244-161	N83-31918*	c 32	US-PATENT-CLASS-264-5
		US-PATENT-4,383,171			US-PATENT-CLASS-269-152			US-PATENT-CLASS-264-9
		NASA-CASE-LEW-13246-1			US-PATENT-CLASS-269-242			US-PATENT-CLASS-425-6
N83-27578*	c 52	US-PATENT-APPL-SN-266255	N83-29392* #	c 27	US-PATENT-CLASS-269-244	N83-31952*	c 33	US-PATENT-CLASS-65-142
		US-PATENT-CLASS-429-105			US-PATENT-CLASS-294-86R			US-PATENT-CLASS-65-214
		US-PATENT-CLASS-429-107			US-PATENT-4,391,423			US-PATENT-CLASS-65-22
N83-27975*	c 05	US-PATENT-CLASS-429-109	N83-29625*	c 34	NASA-CASE-GSC-12770-1	N83-31953*	c 33	US-PATENT-4,344,787
		US-PATENT-CLASS-429-34			US-PATENT-APPL-SN-301075			NASA-CASE-NPO-15251-1
		US-PATENT-CLASS-429-40			US-PATENT-CLASS-423-648R			US-PATENT-APPL-SN-229239
N83-28064*	c 18	US-PATENT-4,382,116	N83-29650*	c 35	US-PATENT-CLASS-423-649	N83-31954*	c 33	US-PATENT-CLASS-337-14
		NASA-CASE-GSC-12158-1			US-PATENT-CLASS-423-649			US-PATENT-CLASS-62-48
		US-PATENT-APPL-SN-888434			US-PATENT-4,393,039			US-PATENT-CLASS-62-514R
N83-28240*	c 27	US-PATENT-CLASS-422-52	N83-29651*	c 35	NASA-CASE-LEW-13132-1	N83-32026*	c 35	US-PATENT-4,366,680
		US-PATENT-CLASS-435-289			US-PATENT-APPL-SN-272152			NASA-CASE-NPO-14525-2
		US-PATENT-CLASS-435-291			US-PATENT-CLASS-204-35N			US-PATENT-APPL-SN-165910
N83-28319*	c 33	US-PATENT-CLASS-435-3	N83-29680*	c 36	US-PATENT-CLASS-204-37R	N83-32067*	c 37	US-PATENT-CLASS-343-5CM
		US-PATENT-CLASS-435-34			US-PATENT-CLASS-204-56R			US-PATENT-CLASS-343-9PS
		US-PATENT-CLASS-435-38			US-PATENT-4,392,920			US-PATENT-CLASS-367-88
N83-28356*	c 34	US-PATENT-CLASS-435-39	N83-29681* #	c 36	NASA-CASE-LEW-12876-2	N83-32077*	c 37	US-PATENT-4,355,311
		US-PATENT-CLASS-435-8			US-PATENT-APPL-SN-393583			NASA-CASE-LEW-13429-1
		US-PATENT-CLASS-435-8			NASA-CASE-LEW-12508-3			US-PATENT-APPL-SN-220212
N83-28573*	c 44	US-PATENT-4,385,113	N83-29783* #	c 43	US-PATENT-APPL-SN-235868	N83-32175*	c 44	US-PATENT-CLASS-315-3
		NASA-CASE-MSC-18761-1			US-PATENT-CLASS-62-3			US-PATENT-CLASS-315-4
		US-PATENT-APPL-SN-254688			US-PATENT-4,392,356			US-PATENT-CLASS-315-5
N83-28574*	c 44	US-PATENT-CLASS-128-DIG.13	N83-29991* #	c 52	NASA-CASE-MFS-25242-1	N83-32176*	c 44	US-PATENT-CLASS-315-5
		US-PATENT-CLASS-604-114			US-PATENT-APPL-SN-246773			US-PATENT-CLASS-315-5
		US-PATENT-CLASS-604-151			US-PATENT-CLASS-374-17			US-PATENT-CLASS-315-5
N83-28849*	c 51	US-PATENT-CLASS-73-204	N83-31603*	c 07	US-PATENT-CLASS-73-863.11	N83-32177*	c 44	US-PATENT-CLASS-315-5
		US-PATENT-4,384,578			US-PATENT-4,389,904			US-PATENT-CLASS-315-5
		NASA-CASE-MSC-18759-1			NASA-CASE-LAR-12531-1			US-PATENT-CLASS-315-5
N83-28849*	c 51	US-PATENT-APPL-SN-233270	N83-31743*	c 25	US-PATENT-APPL-SN-282191	N83-32232*	c 47	US-PATENT-CLASS-315-5
		US-PATENT-CLASS-128-660			US-PATENT-CASE-368-10			US-PATENT-CLASS-315-5
		US-PATENT-CLASS-128-663			US-PATENT-CASE-368-118			US-PATENT-CLASS-315-5
N83-28849*	c 51	US-PATENT-CLASS-128-663	N83-31795*	c 26	US-PATENT-CASE-368-119	N83-32232*	c 47	US-PATENT-CLASS-315-5
		US-PATENT-CLASS-73-597			US-PATENT-CASE-368-120			US-PATENT-CLASS-315-5
		US-PATENT-4,383,533			US-PATENT-CASE-368-6			US-PATENT-CLASS-315-5
N83-28849*	c 51	NASA-CASE-FRC-11072-1	N83-31854*	c 27	US-PATENT-CASE-368-9	N83-32232*	c 47	US-PATENT-CLASS-315-5
		US-PATENT-APPL-SN-230613			US-PATENT-4,392,749			US-PATENT-CLASS-315-5
		US-PATENT-CASE-179-146-R			NASA-CASE-MSC-18936-1			US-PATENT-CLASS-315-5
N83-28849*	c 51	US-PATENT-CASE-179-179	N83-31855*	c 27	US-PATENT-APPL-SN-325082	N83-32232*	c 47	US-PATENT-CLASS-315-5
		US-PATENT-CASE-367-906			US-PATENT-CLASS-55-194			US-PATENT-CLASS-315-5
		US-PATENT-4,388,502			US-PATENT-CLASS-55-202			US-PATENT-CLASS-315-5
N83-28849*	c 51	NASA-CASE-GSC-12551-1	N83-31855*	c 27	US-PATENT-CLASS-55-194	N83-32232*	c 47	US-PATENT-CLASS-315-5
		US-PATENT-APPL-SN-182881			US-PATENT-CLASS-55-202			US-PATENT-CLASS-315-5
		US-PATENT-CLASS-244-169			US-PATENT-4,392,874			US-PATENT-CLASS-315-5
N83-28849*	c 51	US-PATENT-CLASS-244-170	N83-31855*	c 27	NASA-CASE-MFS-25315-1	N83-32232*	c 47	US-PATENT-CLASS-315-5
		US-PATENT-4,386,750			US-PATENT-APPL-SN-224232			US-PATENT-CLASS-315-5
		NASA-CASE-LAR-12775-1			US-PATENT-CASE-356-129			US-PATENT-CLASS-315-5
N83-28849*	c 51	US-PATENT-APPL-SN-308201	N83-31855*	c 27	US-PATENT-4,391,518	N83-32232*	c 47	US-PATENT-CLASS-315-5
		US-PATENT-CLASS-524-104			NASA-CASE-GSC-12609-2			US-PATENT-CLASS-315-5
		US-PATENT-CLASS-524-173			US-PATENT-APPL-SN-481020			US-PATENT-CLASS-315-5
N83-28849*	c 51	US-PATENT-CLASS-524-233	N83-31855*	c 27	NASA-CASE-LAR-13053-1	N83-32232*	c 47	US-PATENT-CLASS-315-5
		US-PATENT-CLASS-524-726			US-PATENT-APPL-SN-508372			US-PATENT-CLASS-315-5
		US-PATENT-CLASS-525-181			NASA-CASE-ARC-11264-2			US-PATENT-CLASS-315-5
N83-28849*	c 51	US-PATENT-CLASS-525-183	N83-31855*	c 27	US-PATENT-APPL-SN-465370	N83-32232*	c 47	US-PATENT-CLASS-315-5
		US-PATENT-CLASS-525-184			NASA-CASE-LEW-14586-1			US-PATENT-CLASS-315-5
		US-PATENT-CLASS-525-474			US-PATENT-APPL-SN-163122			US-PATENT-CLASS-315-5
N83-28849*	c 51	US-PATENT-4,389,504	N83-31855*	c 27	US-PATENT-CLASS-415-1	N83-32232*	c 47	US-PATENT-CLASS-315-5
		NASA-CASE-MFS-25302-1			US-PATENT-CLASS-415-175			US-PATENT-CLASS-315-5
		US-PATENT-APPL-SN-243683			US-PATENT-CLASS-415-178			US-PATENT-CLASS-315-5
N83-28849*	c 51	US-PATENT-CLASS-322-29	N83-31855*	c 27	US-PATENT-CLASS-415-47	N83-32232*	c 47	US-PATENT-CLASS-315-5
		US-PATENT-CLASS-322-35			US-PATENT-4,338,061			US-PATENT-CLASS-315-5
		US-PATENT-CLASS-322-47			NASA-CASE-NPO-15304-1			US-PATENT-CLASS-315-5
N83-28849*	c 51	US-PATENT-CLASS-322-95	N83-31855*	c 27	US-PATENT-APPL-SN-315587	N83-32232*	c 47	US-PATENT-CLASS-315-5
		US-PATENT-4,388,585			US-PATENT-CLASS-201-17			US-PATENT-CLASS-315-5
		NASA-CASE-GSC-12553-1			US-PATENT-CLASS-44-1SR			US-PATENT-CLASS-315-5
N83-28849*	c 51	US-PATENT-APPL-SN-106192	N83-31855*	c 27	US-PATENT-4,391,609	N83-32232*	c 47	US-PATENT-CLASS-315-5
		US-PATENT-CLASS-165-185			NASA-CASE-LEW-13343			US-PATENT-CLASS-315-5
		US-PATENT-CLASS-165-32			US-PATENT-APPL-SN-293418			US-PATENT-CLASS-315-5
N83-28849*	c 51	US-PATENT-CLASS-165-76	N83-31855*	c 27	US-PATENT-CLASS-427-318	N83-32232*	c 47	US-PATENT-CLASS-315-5
		US-PATENT-4,388,965			US-PATENT-CLASS-427-419.2			US-PATENT-CLASS-315-5
		NASA-CASE-LAR-12495-1			US-PATENT-CLASS-428-450			US-PATENT-CLASS-315-5
N83-28849*	c 51	US-PATENT-APPL-SN-263830	N83-31855*	c 27	US-PATENT-CLASS-428-469	N83-32232*	c 47	US-PATENT-CLASS-315-5
		US-PATENT-CLASS-310-11			US-PATENT-CLASS-428-641			US-PATENT-CLASS-315-5
		US-PATENT-4,388,542			US-PATENT-CLASS-428-650			US-PATENT-CLASS-315-5
N83-28849*	c 51	NASA-CASE-GSC-12697-1	N83-31855*	c 27	US-PATENT-CLASS-428-680	N83-32232*	c 47	US-PATENT-CLASS-315-5
		US-PATENT-APPL-SN-308204			US-PATENT-4,374,183			US-PATENT-CLASS-315-5
		US-PATENT-CLASS-308-10			NASA-CASE-ARC-11368-1			US-PATENT-CLASS-315-5
N83-28849*	c 51	US-PATENT-CLASS-310-15	N83-31855*	c 27	US-PATENT-APPL-SN-288267	N83-32232*	c 47	US-PATENT-CLASS-315-5
		US-PATENT-CLASS-417-417			US-PATENT-CLASS-548-413			US-PATENT-CLASS-315-5
		US-PATENT-CLASS-62-6			US-PATENT-CLASS-548-415			US-PATENT-CLASS-

N83-32515*	c 71	US-PATENT-APPL-SN-258623	US-PATENT-APPL-SN-276748	US-PATENT-CLASS-318-806
		US-PATENT-CLASS-364-200	US-PATENT-CLASS-315-208	US-PATENT-4,401,934
N83-32515*	c 71	US-PATENT-CLASS-364-900	US-PATENT-CLASS-315-224	N83-35307* c 34 NASA-CASE-GSC-12812-1
		US-PATENT-4,394,726	US-PATENT-CLASS-315-225	US-PATENT-APPL-SN-434674
N83-32515*	c 71	NASA-CASE-NPO-15453-1	US-PATENT-CLASS-315-237	US-PATENT-CLASS-165-104.26
		US-PATENT-APPL-SN-314929	US-PATENT-CLASS-315-241R	US-PATENT-CLASS-165-32
N83-32516*	c 71	US-PATENT-CLASS-60-721	US-PATENT-CLASS-372-25	US-PATENT-4,402,358
		US-PATENT-CLASS-73-505	US-PATENT-4,398,129	N83-35338* c 35 NASA-CASE-LEW-13934-1
N83-32516*	c 71	US-PATENT-4,393,708	N83-34190* c 33 NASA-CASE-MFS-25607-1	US-PATENT-APPL-SN-212949
		NASA-CASE-NPO-15522-1	US-PATENT-APPL-SN-325886	US-PATENT-CLASS-228-103
N83-32577*	c 74	US-PATENT-APPL-SN-303672	US-PATENT-CLASS-361-90	US-PATENT-CLASS-228-193
		US-PATENT-CLASS-60-721	US-PATENT-CLASS-318-729	US-PATENT-CLASS-228-263.18
N83-32577*	c 74	US-PATENT-CLASS-73-505	US-PATENT-CLASS-318-798	US-PATENT-CLASS-415-118
		US-PATENT-4,393,706	US-PATENT-CLASS-318-806	US-PATENT-4,402,447
N83-32577*	c 74	NASA-CASE-GSC-12614-1	US-PATENT-CLASS-361-100	N83-35350* c 36 NASA-CASE-NPO-15201-1
		US-PATENT-APPL-SN-195227	US-PATENT-CLASS-363-54	US-PATENT-APPL-SN-246778
N83-33882*	c 06	US-PATENT-CLASS-356-353	US-PATENT-4,400,657	US-PATENT-CLASS-330-4
		US-PATENT-CLASS-356-363	N83-34191* c 33 NASA-CASE-GSC-12646-1	US-PATENT-CLASS-332-7.5
N83-33882*	c 06	US-PATENT-4,395,123	US-PATENT-APPL-SN-284290	US-PATENT-CLASS-333-24.2
		NASA-CASE-FRC-11043-1	US-PATENT-CLASS-330-289	US-PATENT-4,399,415
N83-33882*	c 06	US-PATENT-APPL-SN-242790	US-PATENT-CLASS-330-310	N83-35781* c 71 NASA-CASE-NPO-15334-1
		US-PATENT-CLASS-33-322	US-PATENT-4,401,953	US-PATENT-APPL-SN-341406
N83-33884*	c 07	US-PATENT-CLASS-74-5.34	N83-34221* c 34 NASA-CASE-LAR-12393-1	US-PATENT-CLASS-210-748
		US-PATENT-4,387,513	US-PATENT-APPL-SN-145208	US-PATENT-CLASS-252-361
N83-33884*	c 07	NASA-CASE-ARC-10812-1	US-PATENT-CLASS-165-27	US-PATENT-CLASS-366-114
		US-PATENT-APPL-SN-657903	US-PATENT-CLASS-165-12	US-PATENT-CLASS-55-15
N83-33884*	c 07	US-PATENT-CLASS-181-213	US-PATENT-CLASS-165-61	US-PATENT-CLASS-55-277
		US-PATENT-CLASS-239-265.17	US-PATENT-CLASS-165-80E	US-PATENT-CLASS-55-38
N83-33950*	c 24	US-PATENT-CLASS-60-262	US-PATENT-CLASS-374-46	US-PATENT-CLASS-55-62
		US-PATENT-CLASS-60-269	US-PATENT-CLASS-62-514R	US-PATENT-CLASS-65-134
N83-33950*	c 24	US-PATENT-CLASS-60-271	US-PATENT-CLASS-62-62	US-PATENT-4,398,925
		US-PATENT-4,372,110	US-PATENT-4,346,754	N83-35888* c 76 NASA-CASE-NPO-15530-1
N83-33950*	c 24	NASA-CASE-NPO-14987-1	N83-34272* c 35 NASA-CASE-ARC-11317-1	US-PATENT-APPL-SN-364092
		US-PATENT-APPL-SN-164-584	US-PATENT-APPL-SN-229231	US-PATENT-CLASS-156-DIG.6
N83-33977*	c 25	US-PATENT-CLASS-427-215	US-PATENT-CLASS-340-518	US-PATENT-CLASS-156-DIG.73
		US-PATENT-CLASS-427-241	US-PATENT-CLASS-340-566	US-PATENT-CLASS-156-608
N83-33977*	c 25	US-PATENT-CLASS-428-367	US-PATENT-4,374,378	US-PATENT-4,401,505
		US-PATENT-CLASS-428-375	N83-34304* c 36 NASA-CASE-ARC-11312-1	N83-35992* c 01 NASA-CASE-LAR-12624-1
N83-33977*	c 25	US-PATENT-CLASS-428-392	US-PATENT-APPL-SN-234224	US-PATENT-APPL-SN-259209
		US-PATENT-CLASS-428-902	US-PATENT-CLASS-356-1	US-PATENT-CLASS-102-378
N83-33977*	c 25	US-PATENT-CLASS-428-903	US-PATENT-CLASS-356-4	US-PATENT-CLASS-244-137P
		US-PATENT-4,359,503	US-PATENT-CLASS-358-104	US-PATENT-CLASS-89-1B
N83-33977*	c 25	NASA-CASE-ARC-11326-1	US-PATENT-CLASS-358-109	US-PATENT-4,407,468
		US-PATENT-APPL-SN-178192	US-PATENT-CLASS-434-38	N83-36029* c 07 NASA-CASE-LEW-13142-1
N83-34039*	c 27	US-PATENT-CLASS-252-5	US-PATENT-CLASS-434-4	US-PATENT-APPL-SN-132364
		US-PATENT-CLASS-423-419P	US-PATENT-4,391,514	US-PATENT-CLASS-60-39.07
N83-34039*	c 27	US-PATENT-CLASS-423-600	N83-34323* c 37 NASA-CASE-GSC-12726-1	US-PATENT-4,404,793
		US-PATENT-CLASS-424-156	US-PATENT-APPL-SN-364093	N83-36118* c 25 NASA-CASE-ARC-11252-1
N83-34039*	c 27	US-PATENT-4,356,157	US-PATENT-CLASS-308-10	US-PATENT-APPL-SN-317977
		NASA-CASE-GSC-12686-1	US-PATENT-4,381,375	US-PATENT-CLASS-169-47
N83-34039*	c 27	US-PATENT-APPL-SN-293412	N83-34448* c 44 NASA-CASE-ARC-11164-1	US-PATENT-CLASS-252-2
		US-PATENT-CLASS-427-322	US-PATENT-APPL-SN-308007	US-PATENT-CLASS-252-5
N83-34040*	c 27	US-PATENT-CLASS-427-340	US-PATENT-CLASS-350-166	US-PATENT-4,406,797
		US-PATENT-CLASS-427-352	US-PATENT-CLASS-428-312.6	N83-36220* c 27 NASA-CASE-MFS-25436-1
N83-34040*	c 27	US-PATENT-CLASS-427-400	US-PATENT-CLASS-428-325	US-PATENT-APPL-SN-280151
		US-PATENT-CLASS-427-407.1	US-PATENT-CLASS-428-427	US-PATENT-CLASS-156-DIG.73
N83-34040*	c 27	US-PATENT-4,362,769	US-PATENT-CLASS-428-428	US-PATENT-CLASS-156-DIG.89
		NASA-CASE-LAR-12838-1	US-PATENT-4,381,333	US-PATENT-CLASS-156-600
N83-34040*	c 27	US-PATENT-APPL-SN-320621	N83-34449* c 44 NASA-CASE-LAR-12719-1	US-PATENT-CLASS-156-610
		US-PATENT-CLASS-526-259	US-PATENT-APPL-SN-367134	US-PATENT-CLASS-165-2
N83-34041*	c 27	US-PATENT-CLASS-526-285	US-PATENT-CLASS-126-901	US-PATENT-CLASS-165-58
		US-PATENT-CLASS-528-12	US-PATENT-CLASS-204-33	US-PATENT-CLASS-219-343
N83-34041*	c 27	US-PATENT-CLASS-528-125	US-PATENT-CLASS-204-35N	US-PATENT-CLASS-219-354
		US-PATENT-CLASS-528-126	US-PATENT-4,397,716	US-PATENT-CLASS-219-390
N83-34041*	c 27	US-PATENT-CLASS-528-128	N83-34796* c 76 NASA-CASE-LEW-12582-1	US-PATENT-CLASS-219-411
		US-PATENT-CLASS-528-220	US-PATENT-APPL-SN-397281	US-PATENT-CLASS-350-316
N83-34041*	c 27	US-PATENT-CLASS-528-222	US-PATENT-CLASS-310-332	US-PATENT-4,408,658
		US-PATENT-CLASS-528-228	US-PATENT-CLASS-310-800	N83-36355* c 33 NASA-CASE-GSC-12630-1
N83-34041*	c 27	US-PATENT-CLASS-528-229	US-PATENT-CLASS-428-294	US-PATENT-APPL-SN-308009
		US-PATENT-CLASS-528-38	US-PATENT-CLASS-428-421	US-PATENT-CLASS-343-100AP
N83-34041*	c 27	US-PATENT-4,375,536	US-PATENT-CLASS-428-422	US-PATENT-CLASS-343-840
		NASA-CASE-LAR-12858-1	US-PATENT-4,400,642	US-PATENT-4,407,001
N83-34041*	c 27	US-PATENT-APPL-SN-407240	N83-35176* c 31 NASA-CASE-NPO-15070-1	N83-36356* c 33 NASA-CASE-KSC-11170-1
		US-PATENT-CLASS-164-331.12	US-PATENT-APPL-SN-403847	US-PATENT-APPL-SN-284288
N83-34043*	c 27	US-PATENT-CLASS-264-137	US-PATENT-CLASS-264-12	US-PATENT-CLASS-330-110
		US-PATENT-CLASS-264-258	US-PATENT-CLASS-264-24	US-PATENT-CLASS-330-282
N83-34043*	c 27	US-PATENT-CLASS-264-331.46	US-PATENT-CLASS-264-5	US-PATENT-4,406,989
		US-PATENT-CLASS-528-222	US-PATENT-CLASS-425-10	N83-36357* c 33 NASA-CASE-LAR-12654-1
N83-34043*	c 27	US-PATENT-CLASS-528-226	US-PATENT-CLASS-425-6	US-PATENT-APPL-SN-234225
		US-PATENT-4,398,021	US-PATENT-CLASS-425-7	US-PATENT-CLASS-368-184
N83-34043*	c 27	NASA-CASE-NPO-15202-1	US-PATENT-CLASS-65-142	US-PATENT-CLASS-368-200
		US-PATENT-APPL-SN-233271	US-PATENT-CLASS-65-21.3	US-PATENT-CLASS-368-201
N83-34073*	c 31	US-PATENT-CLASS-384-124	US-PATENT-CLASS-65-21.4	US-PATENT-4,407,589
		US-PATENT-CLASS-523-440	US-PATENT-CLASS-65-22	N83-36482* c 37 NASA-CASE-MSC-18791-1
N83-34073*	c 31	US-PATENT-CLASS-523-443	US-PATENT-4,400,191	US-PATENT-APPL-SN-248746
		US-PATENT-4,395,503	N83-35177* c 31 NASA-CASE-LEW-13450-1	US-PATENT-CLASS-29-446
N83-34073*	c 31	NASA-CASE-ARC-11246-1	US-PATENT-APPL-SN-328760	US-PATENT-CLASS-73-862.54
		US-PATENT-APPL-SN-136660	US-PATENT-CLASS-427-243	US-PATENT-CLASS-81-55
N83-34073*	c 31	US-PATENT-CLASS-156-264	US-PATENT-CLASS-427-247	US-PATENT-CLASS-81-57.38
		US-PATENT-CLASS-156-344	US-PATENT-CLASS-427-34	US-PATENT-4,407,165
N83-34189*	c 33	US-PATENT-CLASS-156-59	US-PATENT-CLASS-427-423	N83-36483* c 37 NASA-CASE-MSC-18807-1
		US-PATENT-CLASS-273-240	US-PATENT-4,402,992	US-PATENT-APPL-SN-266688
N83-34189*	c 33	US-PATENT-CLASS-434-403	N83-35227* c 33 NASA-CASE-MFS-25209-1	US-PATENT-CLASS-123-197R
		US-PATENT-CLASS-434-88	US-PATENT-APPL-SN-291132	US-PATENT-CLASS-123-78E
N83-34189*	c 33	US-PATENT-4,385,949	US-PATENT-CLASS-318-685	US-PATENT-4,406,256
		NASA-CASE-GSC-12566-1	US-PATENT-CLASS-318-798	N83-36846* c 71 NASA-CASE-NPO-15435-1

			US-PATENT-APPL-SN-272837				US-PATENT-APPL-SN-322314				US-PATENT-CLASS-339-258RR
			US-PATENT-CLASS-308-10				US-PATENT-CLASS-156-215				US-PATENT-CLASS-339-262RR
			US-PATENT-CLASS-73-505				US-PATENT-CLASS-156-230				US-PATENT-CLASS-339-64M
			US-PATENT-4,402,221				US-PATENT-CLASS-156-235				US-PATENT-4,421,371
N83-36898*	c 74		NASA-CASE-GSC-12683-1				US-PATENT-CLASS-156-294	N84-14424*	c 33		NASA-CASE-MFS-25477-1
			US-PATENT-APPL-SN-333535				US-PATENT-CLASS-156-391				US-PATENT-APPL-SN-243683
			US-PATENT-CLASS-350-173				US-PATENT-CLASS-156-423				US-PATENT-APPL-SN-297524
			US-PATENT-CLASS-350-445				US-PATENT-CLASS-156-540				US-PATENT-APPL-SN-350472
			US-PATENT-4,407,563				US-PATENT-CLASS-156-71				US-PATENT-CLASS-318-729
N84-11136*	c 02		NASA-CASE-LAR-12843-1				US-PATENT-CLASS-338-2				US-PATENT-CLASS-318-788
			US-PATENT-APPL-SN-392096				US-PATENT-4,407,686				US-PATENT-CLASS-318-806
			US-PATENT-CLASS-244-35A	N84-12444*	c 35		NASA-CASE-LAR-12706-1				US-PATENT-4,417,190
			US-PATENT-CLASS-244-35R				US-PATENT-APPL-SN-210498	N84-14461*	c 34		NASA-CASE-GSC-12771-1
			US-PATENT-CLASS-416-223R				US-PATENT-CLASS-324-250				US-PATENT-APPL-SN-434672
			US-PATENT-CLASS-416-242				US-PATENT-CLASS-328-230				US-PATENT-CLASS-165-32
			US-PATENT-4,412,664				US-PATENT-CLASS-372-74				US-PATENT-CLASS-165-41
N84-11213*	c 24		NASA-CASE-ARC-11418-1				US-PATENT-4,414,509				US-PATENT-CLASS-165-96
			US-PATENT-APPL-SN-452464	N84-12445*	c 35		NASA-CASE-LAR-12882-1				US-PATENT-4,420,035
			US-PATENT-CLASS-523-435				US-PATENT-APPL-SN-267179	N84-14491*	c 35		NASA-CASE-LAR-12686-1
			US-PATENT-CLASS-523-456				US-PATENT-CLASS-364-415				US-PATENT-APPL-SN-249304
			US-PATENT-CLASS-528-110				US-PATENT-CLASS-73-646				US-PATENT-CLASS-364-557
			US-PATENT-CLASS-528-361				US-PATENT-CLASS-73-658				US-PATENT-CLASS-364-558
			US-PATENT-4,410,682				US-PATENT-4,413,522				US-PATENT-CLASS-364-571
N84-11214*	c 24		NASA-CASE-LAR-12807-1	N84-12491*	c 37		NASA-CASE-GSC-12619-1				US-PATENT-CLASS-73-714
			US-PATENT-APPL-SN-280155				US-PATENT-APPL-SN-225499				US-PATENT-4,399,515
			US-PATENT-CLASS-228-157				US-PATENT-CLASS-101-407BP	N84-14509*	c 36		NASA-CASE-GSC-12565-1
			US-PATENT-CLASS-228-181				US-PATENT-CLASS-269-3				US-PATENT-APPL-SN-270763
			US-PATENT-CLASS-228-212				US-PATENT-4,393,777				US-PATENT-CLASS-350-299
			US-PATENT-CLASS-244-119	N84-12492*	c 37		NASA-CASE-GSC-12622-1				US-PATENT-CLASS-356-345
			US-PATENT-CLASS-244-123				US-PATENT-APPL-SN-243684				US-PATENT-CLASS-372-100
			US-PATENT-CLASS-428-593				US-PATENT-CLASS-308-2A				US-PATENT-CLASS-372-108
			US-PATENT-CLASS-52-806				US-PATENT-4,405,184				US-PATENT-CLASS-372-93
			US-PATENT-CLASS-52-808	N84-12493*	c 37		NASA-CASE-LAR-12923-1				US-PATENT-CLASS-372-94
			US-PATENT-4,411,380				US-PATENT-APPL-SN-383063				US-PATENT-CLASS-372-98
N84-11497*	c 37		NASA-CASE-MFS-25678-1				US-PATENT-CLASS-416-117				US-PATENT-4,420,836
			US-PATENT-APPL-SN-378533				US-PATENT-CLASS-416-132B	N84-14583*	c 44		NASA-CASE-NPO-15100-1
			US-PATENT-CLASS-277-116.6				US-PATENT-4,415,311				US-PATENT-APPL-SN-259211
			US-PATENT-CLASS-277-124	N84-12654*	c 45		NASA-CASE-NSTL-10				US-PATENT-CLASS-138-42
			US-PATENT-CLASS-277-164				US-PATENT-APPL-SN-335036				US-PATENT-CLASS-251-127
			US-PATENT-CLASS-277-177				US-PATENT-CLASS-210-151				US-PATENT-4,418,722
			US-PATENT-CLASS-277-190				US-PATENT-CLASS-210-602	N84-14873*	c 71		NASA-CASE-LAR-11903-2
			US-PATENT-4,410,189				US-PATENT-CLASS-210-605				US-PATENT-APPL-SN-238791
N84-11744*	c 52		NASA-CASE-MFS-25740-1				US-PATENT-CLASS-210-617				US-PATENT-APPL-SN-753971
			US-PATENT-APPL-SN-371352				US-PATENT-CLASS-47-58				US-PATENT-CLASS-239-265.17
			US-PATENT-CLASS-128-DIG.25				US-PATENT-4,415,450				US-PATENT-4,398,667
			US-PATENT-CLASS-128-1R	N84-12968* #	c 76		NASA-CASE-NPO-15811-1	N84-16231*	c 15		NASA-CASE-LAR-12751-1
			US-PATENT-CLASS-128-346				US-PATENT-APPL-SN-547175				US-PATENT-APPL-SN-338386
			US-PATENT-4,408,597	N84-14132*	c 04		NASA-CASE-LAR-12638-1				US-PATENT-CLASS-73-167
N84-11758*	c 54		NASA-CASE-MSC-18223-2				US-PATENT-APPL-SN-367187				US-PATENT-CLASS-73-432R
			US-PATENT-APPL-SN-219681				US-PATENT-CLASS-33-DIG.3				US-PATENT-CLASS-73-9
			US-PATENT-APPL-SN-368187				US-PATENT-CLASS-33-348				US-PATENT-4,425,785
			US-PATENT-CLASS-604-368				US-PATENT-CLASS-33-356	N84-16255*	c 23		NASA-CASE-NPO-15767-1
			US-PATENT-CLASS-604-378				US-PATENT-CLASS-33-361				US-PATENT-APPL-SN-315584
			US-PATENT-CLASS-604-396				US-PATENT-4,418,480				US-PATENT-CLASS-208-10
			US-PATENT-4,338,371	N84-14322*	c 27		NASA-CASE-ARC-11400-1				US-PATENT-CLASS-208-8LE
			US-PATENT-4,411,660				US-PATENT-APPL-SN-441899				US-PATENT-4,388,171
N84-11920*	c 74		NASA-CASE-GSC-12640-1				US-PATENT-CLASS-428-246	N84-16262*	c 24		NASA-CASE-MSC-16934-3
			US-PATENT-APPL-SN-267178				US-PATENT-CLASS-428-260				US-PATENT-APPL-SN-185868
			US-PATENT-CLASS-250-363R				US-PATENT-CLASS-428-367				US-PATENT-APPL-SN-361711
			US-PATENT-CLASS-250-363S				US-PATENT-CLASS-428-408				US-PATENT-APPL-SN-969757
			US-PATENT-CLASS-250-368				US-PATENT-CLASS-428-473.5				US-PATENT-CLASS-164-119
			US-PATENT-CLASS-378-2				US-PATENT-CLASS-428-902				US-PATENT-CLASS-264-118
			US-PATENT-4,404,469				US-PATENT-CLASS-428-920				US-PATENT-CLASS-264-59
N84-11921*	c 74		NASA-CASE-NPO-15375-1				US-PATENT-CLASS-524-494				US-PATENT-CLASS-264-60
			US-PATENT-APPL-SN-210405				US-PATENT-CLASS-524-496				US-PATENT-4,421,700
			US-PATENT-CLASS-250-227				US-PATENT-CLASS-524-500	N84-16276*	c 25		NASA-CASE-LEW-13426-1
			US-PATENT-CLASS-3-1.1				US-PATENT-CLASS-524-530				US-PATENT-APPL-SN-393588
			US-PATENT-CLASS-350-96.10				US-PATENT-CLASS-525-282				US-PATENT-CLASS-110-186
			US-PATENT-CLASS-350-96.15				US-PATENT-CLASS-525-287				US-PATENT-CLASS-110-262
			US-PATENT-CLASS-73-432T				US-PATENT-4,421,820				US-PATENT-CLASS-110-263
			US-PATENT-4,405,197	N84-14323*	c 27		NASA-CASE-LAR-12881-1				US-PATENT-CLASS-110-265
N84-12154*	c 05		NASA-CASE-LAR-12615-1				US-PATENT-APPL-SN-361215				US-PATENT-CLASS-431-1
			US-PATENT-APPL-SN-263829				US-PATENT-CLASS-206-447				US-PATENT-4,425,854
			US-PATENT-CLASS-244-13				US-PATENT-CLASS-206-582	N84-16452*	c 33		NASA-CASE-LEW-13570-1
			US-PATENT-CLASS-244-45R				US-PATENT-CLASS-428-202				US-PATENT-APPL-SN-251009
			US-PATENT-CLASS-244-53R				US-PATENT-CLASS-428-347				US-PATENT-CLASS-315-3.5
			US-PATENT-CLASS-244-55				US-PATENT-CLASS-428-40				US-PATENT-CLASS-315-3.6
			US-PATENT-CLASS-244-91				US-PATENT-CLASS-428-78				US-PATENT-CLASS-315-39.3
			US-PATENT-4,415,133				US-PATENT-4,420,518				US-PATENT-CLASS-333-162
N84-12193* #	c 09		NASA-CASE-ARC-11426-1	N84-14324*	c 27		NASA-CASE-MSC-18382-2				US-PATENT-4,422,012
			US-PATENT-APPL-SN-526741				US-PATENT-APPL-SN-241155	N84-16453*	c 33		NASA-CASE-MFS-25430-1
N84-12262*	c 25		NASA-CASE-NPO-15458-1				US-PATENT-CLASS-524-371				US-PATENT-APPL-SN-383083
			US-PATENT-APPL-SN-376306				US-PATENT-4,395,511				US-PATENT-CLASS-363-25
			US-PATENT-CLASS-204-DIG.3	N84-14421*	c 33		NASA-CASE-GSC-12650-1				US-PATENT-CLASS-363-65
			US-PATENT-CLASS-204-129				US-PATENT-APPL-SN-301077				US-PATENT-CLASS-363-67
			US-PATENT-CLASS-204-242				US-PATENT-CLASS-330-107				US-PATENT-CLASS-363-71
			US-PATENT-CLASS-204-278				US-PATENT-CLASS-330-109				US-PATENT-4,426,678
			US-PATENT-CLASS-204-290R				US-PATENT-4,417,215	N84-16454*	c 33		NASA-CASE-GSC-12645-1
			US-PATENT-CLASS-427-443.2	N84-14422*	c 33		NASA-CASE-LEW-13286-1				US-PATENT-APPL-SN-284314
			US-PATENT-CLASS-429-111				US-PATENT-APPL-SN-272400				US-PATENT-CLASS-324-79R
			US-PATENT-4,414,080				US-PATENT-CLASS-252-182.1				US-PATENT-CLASS-324-83A
N84-12406*	c 34		NASA-CASE-MFS-25631-1				US-PATENT-CLASS-429-206				US-PATENT-CLASS-324-83R
			US-PATENT-APPL-SN-308203				US-PATENT-CLASS-429-229				US-PATENT-CLASS-328-133
			US-PATENT-CLASS-239-426				US-PATENT-4,418,130				US-PATENT-CLASS-330-289
			US-PATENT-4,413,784	N84-14423*	c 33		NASA-CASE-MFS-25211-2				US-PATENT-4,425,543
N84-12443*	c 35		NASA-CASE-FRC-11068-1				US-PATENT-APPL-SN-432057	N84-16455*	c 33		NASA-CASE-MFS-25616-1

			US-PATENT-APPL-SN-325932				US-PATENT-CLASS-244-215				US-PATENT-APPL-SN-433598
			US-PATENT-CLASS-318-799				US-PATENT-CLASS-244-216				US-PATENT-CLASS-524-171
			US-PATENT-CLASS-323-243				US-PATENT-CLASS-244-219				US-PATENT-CLASS-525-534
			US-PATENT-CLASS-323-246				US-PATENT-4,444,368				US-PATENT-CLASS-525-535
			US-PATENT-4,426,614	N84-22559*	c 07		NASA-CASE-LEW-13622-1				US-PATENT-CLASS-525-536
N84-16456*	c 33		NASA-CASE-NPO-15161-1				US-PATENT-APPL-SN-350473				US-PATENT-CLASS-528-25
			US-PATENT-APPL-SN-325083				US-PATENT-CLASS-364-558				US-PATENT-CLASS-528-26
			US-PATENT-CLASS-427-216				US-PATENT-CLASS-73-115				US-PATENT-4,431,761
			US-PATENT-CLASS-427-217				US-PATENT-4,428,226	N84-22748*	c 27		NASA-CASE-NPO-15640-1
			US-PATENT-CLASS-427-226	N84-22560*	c 07		NASA-CASE-LEW-13654-1				US-PATENT-APPL-SN-465367
			US-PATENT-CLASS-427-376.6				US-PATENT-APPL-SN-245571				US-PATENT-CLASS-156-304.3
			US-PATENT-CLASS-427-376.7				US-PATENT-CLASS-416-224				US-PATENT-CLASS-156-304.6
			US-PATENT-CLASS-427-436				US-PATENT-CLASS-416-233				US-PATENT-CLASS-156-499
			US-PATENT-CLASS-427-437				US-PATENT-CLASS-416-92				US-PATENT-CLASS-156-89
			US-PATENT-CLASS-427-58				US-PATENT-CLASS-416-97R				US-PATENT-CLASS-156-89
			US-PATENT-CLASS-427-75				US-PATENT-4,411,597				US-PATENT-4,420,352
			US-PATENT-CLASS-427-88	N84-22601*	c 16		NASA-CASE-MSC-20254-1	N84-22749*	c 27		NASA-CASE-LAR-12980-1
			US-PATENT-CLASS-427-96				US-PATENT-APPL-SN-418137				US-PATENT-APPL-SN-469866
			US-PATENT-4,388,346				US-PATENT-CLASS-244-158A				US-PATENT-CLASS-528-125
N84-16523*	c 35		NASA-CASE-LAR-12007-3				US-PATENT-CLASS-52-404				US-PATENT-CLASS-528-128
			US-PATENT-APPL-SN-352831				US-PATENT-CLASS-52-506				US-PATENT-CLASS-528-172
			US-PATENT-CLASS-33-293				US-PATENT-4,439,968				US-PATENT-CLASS-528-185
			US-PATENT-4,428,122	N84-22605*	c 18		NASA-CASE-MSC-18969-1				US-PATENT-4,444,979
N84-16542*	c 36		NASA-CASE-LAR-12870-1				US-PATENT-APPL-SN-368189	N84-22750*	c 27		NASA-CASE-ARC-11370-1
			US-PATENT-APPL-SN-317658				US-PATENT-CLASS-244-161				US-PATENT-APPL-SN-491125
			US-PATENT-CLASS-372-55				US-PATENT-CLASS-403-322				US-PATENT-CLASS-525-389
			US-PATENT-CLASS-372-79				US-PATENT-4,431,333				US-PATENT-CLASS-528-394
			US-PATENT-4,424,592	N84-22609* #	c 18		NASA-CASE-MFS-15429-1				US-PATENT-CLASS-528-399
N84-16560*	c 37		NASA-CASE-MFS-25510-1				US-PATENT-APPL-SN-596959				US-PATENT-CLASS-528-6
			US-PATENT-APPL-SN-293414	N84-22610* #	c 18		NASA-CASE-MSC-20543-1				US-PATENT-CLASS-528-7
			US-PATENT-CLASS-248-228				US-PATENT-APPL-SN-580574				US-PATENT-CLASS-568-4
			US-PATENT-4,422,609	N84-22612* #	c 18		NASA-CASE-ARC-11505-1				US-PATENT-CLASS-568-5
N84-16561*	c 37		NASA-CASE-LAR-12785-1				US-PATENT-APPL-SN-588036				US-PATENT-4,444,972
			US-PATENT-APPL-SN-297488	N84-22695*	c 24		NASA-CASE-LEW-13837-1	N84-22820*	c 32		NASA-CASE-MSC-18675-1
			US-PATENT-CLASS-239-568				US-PATENT-APPL-SN-495381				US-PATENT-APPL-SN-266687
			US-PATENT-CLASS-241-95				US-PATENT-CLASS-204-192C				US-PATENT-CLASS-343-17.5
			US-PATENT-CLASS-406-155				US-PATENT-CLASS-204-192R				US-PATENT-CLASS-343-9R
			US-PATENT-4,428,703				US-PATENT-CLASS-204-192SP				US-PATENT-4,439,766
N84-16803*	c 54		NASA-CASE-MSC-20202-1				US-PATENT-CLASS-423-DIG.10	N84-22884*	c 33		NASA-CASE-MFS-256704-1
			US-PATENT-APPL-SN-414106				US-PATENT-CLASS-423-414				US-PATENT-APPL-SN-409679
			US-PATENT-CLASS-128-1A				US-PATENT-CLASS-423-445				US-PATENT-CLASS-204-192EC
			US-PATENT-CLASS-128-15R				US-PATENT-CLASS-423-446				US-PATENT-4,437,961
			US-PATENT-CLASS-128-38				US-PATENT-CLASS-423-449	N84-22885*	c 33		NASA-CASE-MFS-25535-2
			US-PATENT-4,421,109				US-PATENT-4,437,962				US-PATENT-APPL-SN-476244
N84-16940*	c 71		NASA-CASE-NPO-15592-1	N84-22709*	c 25		NASA-CASE-NPO-15210-1				US-PATENT-CLASS-318-438
			US-PATENT-APPL-SN-314702				US-PATENT-APPL-SN-322312				US-PATENT-CLASS-318-729
			US-PATENT-CLASS-118-300				US-PATENT-CLASS-208-10				US-PATENT-CLASS-318-798
			US-PATENT-CLASS-118-50				US-PATENT-CLASS-208-8LE				US-PATENT-CLASS-318-805
			US-PATENT-CLASS-118-50.1				US-PATENT-4,443,321				US-PATENT-CLASS-318-810
			US-PATENT-CLASS-118-500	N84-22734*	c 26		NASA-CASE-LEW-13349-1				US-PATENT-4,433,276
			US-PATENT-CLASS-118-57				US-PATENT-APPL-SN-350476	N84-22886*	c 33		NASA-CASE-MFS-25323-1
			US-PATENT-CLASS-118-62				US-PATENT-CLASS-29-623.5				US-PATENT-APPL-SN-297524
			US-PATENT-CLASS-427-346				US-PATENT-CLASS-427-115				US-PATENT-CLASS-318-729
			US-PATENT-CLASS-427-421				US-PATENT-CLASS-427-125				US-PATENT-CLASS-318-812
			US-PATENT-CLASS-427-426				US-PATENT-CLASS-427-126.6				US-PATENT-4,439,718
			US-PATENT-CLASS-427-57				US-PATENT-CLASS-427-296	N84-22887*	c 33		NASA-CASE-GSC-12567-1
			US-PATENT-CLASS-427-6				US-PATENT-CLASS-427-306				US-PATENT-APPL-SN-373839
			US-PATENT-CLASS-65-213				US-PATENT-CLASS-429-223				US-PATENT-CLASS-330-109
			US-PATENT-4,425,376				US-PATENT-CLASS-429-234				US-PATENT-CLASS-330-277
N84-16959* #	c 72		NASA-CASE-NPO-15547-1				US-PATENT-4,439,465				US-PATENT-CLASS-330-294
			US-PATENT-APPL-SN-276076	N84-22744*	c 27		NASA-CASE-ARC-11402-1				US-PATENT-4,437,069
N84-17555*	c 35		NASA-CASE-NPO-15426-1				US-PATENT-APPL-SN-366025	N84-22903*	c 34		NASA-CASE-NPO-15465-1
			US-PATENT-APPL-SN-196877				US-PATENT-CLASS-260-465.5R				US-PATENT-APPL-SN-284289
			US-PATENT-CLASS-210-748				US-PATENT-CLASS-260-465.6				US-PATENT-CLASS-126-417
			US-PATENT-CLASS-422-121				US-PATENT-CLASS-528-362				US-PATENT-CLASS-165-DIG.6
			US-PATENT-CLASS-422-169				US-PATENT-CLASS-528-401				US-PATENT-CLASS-165-135
			US-PATENT-CLASS-422-178				US-PATENT-CLASS-528-422				US-PATENT-CLASS-62-DIG.1
			US-PATENT-CLASS-422-186				US-PATENT-CLASS-528-423				US-PATENT-CLASS-62-264
			US-PATENT-CLASS-55-DIG.25				US-PATENT-CLASS-544-215				US-PATENT-CLASS-62-467R
			US-PATENT-CLASS-55-DIG.30				US-PATENT-CLASS-564-243				US-PATENT-4,423,605
			US-PATENT-CLASS-55-105				US-PATENT-4,434,106	N84-22928*	c 35		NASA-CASE-MFS-25687-1
			US-PATENT-CLASS-55-12	N84-22745*	c 27		NASA-CASE-ARC-11368-3				US-PATENT-APPL-SN-350474
			US-PATENT-CLASS-55-126				US-PATENT-APPL-SN-288267				US-PATENT-CLASS-324-262
			US-PATENT-CLASS-55-131				US-PATENT-APPL-SN-512795				US-PATENT-CLASS-73-620
			US-PATENT-CLASS-55-138				US-PATENT-CLASS-428-370				US-PATENT-CLASS-73-633
			US-PATENT-CLASS-55-139				US-PATENT-CLASS-428-408				US-PATENT-CLASS-74-58
			US-PATENT-CLASS-55-145				US-PATENT-CLASS-428-902				US-PATENT-4,434,659
			US-PATENT-CLASS-55-2				US-PATENT-CLASS-428-920	N84-22929*	c 35		NASA-CASE-MFS-25405-1
			US-PATENT-CLASS-55-270				US-PATENT-CLASS-525-417				US-PATENT-APPL-SN-274708
			US-PATENT-CLASS-55-283				US-PATENT-CLASS-526-262				US-PATENT-CLASS-356-347
			US-PATENT-CLASS-55-291				US-PATENT-CLASS-528-228				US-PATENT-4,428,675
			US-PATENT-CLASS-55-466				US-PATENT-CLASS-528-322	N84-22930*	c 35		NASA-CASE-LEW-13598-1
			US-PATENT-CLASS-55-6				US-PATENT-CLASS-548-415				US-PATENT-APPL-SN-425203
			US-PATENT-CLASS-55-96				US-PATENT-4,395,557				US-PATENT-CLASS-101-395
			US-PATENT-CLASS-60-275				US-PATENT-4,433,115				US-PATENT-CLASS-156-630
			US-PATENT-CLASS-60-303	N84-22746*	c 27		NASA-CASE-LAR-12723-2				US-PATENT-CLASS-156-654
			US-PATENT-CLASS-60-311				US-PATENT-APPL-SN-199768				US-PATENT-CLASS-156-905
			US-PATENT-4,376,637				US-PATENT-APPL-SN-447371				US-PATENT-CLASS-228-165
N84-22546*	c 04		NASA-CASE-GSC-12508-1				US-PATENT-CLASS-525-426				US-PATENT-4,437,923
			US-PATENT-APPL-SN-266253				US-PATENT-CLASS-528-183	N84-22931*	c 35		NASA-CASE-NPO-15398-1
			US-PATENT-CLASS-343-356				US-PATENT-CLASS-528-220				US-PATENT-APPL-SN-259212
			US-PATENT-CLASS-343-357				US-PATENT-CLASS-528-345				US-PATENT-CLASS-356-216
			US-PATENT-4,445,118				US-PATENT-CLASS-528-348				US-PATENT-CLASS-356-234
N84-22551*	c 05		NASA-CASE-LAR-12541-1				US-PATENT-4,395,540				US-PATENT-4,431,306
			US-PATENT-APPL-SN-315588				US-PATENT-4,431,792	N84-22932*	c 35		NASA-CASE-LAR-12967-1
			US-PATENT-CLASS-244-212	N84-22747*	c 27		NASA-CASE-LAR-12931-1				US-PATENT-APPL-SN-414107

				US-PATENT-CLASS-310-317				US-PATENT-CLASS-350-443				US-PATENT-APPL-SN-450166
				US-PATENT-CLASS-310-334				US-PATENT-4,444,464				US-PATENT-CLASS-318-729
				US-PATENT-CLASS-310-366				NASA-CASE-LEW-14035-1				US-PATENT-CLASS-318-809
				US-PATENT-4,446,396		N84-24577*	c 07	US-PATENT-APPL-SN-136652				US-PATENT-CLASS-323-300
N84-22933*	c 35			NASA-CASE-LAR-12995-1				US-PATENT-CLASS-60-757				US-PATENT-4,459,528
				US-PATENT-APPL-SN-444150				US-PATENT-4,414,816		N84-28015*	c 35	NASA-CASE-WLP-10055-1
				US-PATENT-CLASS-181-121		N84-25037* #	c 36	NASA-CASE-NPO-16030-1				US-PATENT-APPL-SN-352827
				US-PATENT-CLASS-367-189				US-PATENT-APPL-SN-582494				US-PATENT-CLASS-73-862.65
				US-PATENT-CLASS-73-589		N84-27713*	c 04	NASA-CASE-NPO-15264-1				US-PATENT-4,425,808
				US-PATENT-CLASS-73-594				US-PATENT-APPL-SN-241154		N84-28016*	c 35	NASA-CASE-NPO-15423-1
				US-PATENT-4,445,378				US-PATENT-CLASS-343-105R				US-PATENT-APPL-SN-361216
N84-22934*	c 35			NASA-CASE-ARC-11361-1				US-PATENT-CLASS-364-452				US-PATENT-CLASS-250-296
				US-PATENT-APPL-SN-373771				US-PATENT-4,396,918				US-PATENT-4,435,642
				US-PATENT-CLASS-340-870.13		N84-27733*	c 06	NASA-CASE-LAR-12630-1		N84-28017*	c 35	NASA-CASE-NPO-15706-1
				US-PATENT-CLASS-73-147				US-PATENT-APPL-SN-383384				US-PATENT-APPL-SN-350475
				US-PATENT-CLASS-73-721				US-PATENT-CLASS-340-705				US-PATENT-CLASS-310-154
				US-PATENT-CLASS-73-756				US-PATENT-CLASS-340-971				US-PATENT-CLASS-310-171
				US-PATENT-4,442,716				US-PATENT-CLASS-340-975				US-PATENT-CLASS-310-688
N84-22943*	c 36			NASA-CASE-NPO-15516-1				US-PATENT-CLASS-340-978				US-PATENT-CLASS-335-222
				US-PATENT-APPL-SN-364126				US-PATENT-CLASS-340-980				US-PATENT-4,443,724
				US-PATENT-CLASS-372-20				US-PATENT-CLASS-73-178R		N84-28018*	c 35	NASA-CASE-MFS-25754-1
				US-PATENT-CLASS-372-28				US-PATENT-4,453,163				US-PATENT-APPL-SN-359626
				US-PATENT-CLASS-372-32		N84-27749*	c 09	NASA-CASE-MFS-25791-1				US-PATENT-CLASS-33-169F
				US-PATENT-4,434,490				US-PATENT-APPL-SN-409678				US-PATENT-CLASS-62-128
N84-22944*	c 36			NASA-CASE-LEW-13526-1				US-PATENT-CLASS-417-159				US-PATENT-CLASS-73-150R
				US-PATENT-APPL-SN-358398				US-PATENT-CLASS-73-117.1				US-PATENT-CLASS-73-170R
				US-PATENT-CLASS-118-50.1				US-PATENT-4,454,753				US-PATENT-CLASS-73-32R
				US-PATENT-CLASS-118-624		N84-27784*	c 16	NASA-CASE-MFS-25853-1				US-PATENT-CLASS-73-864.41
				US-PATENT-CLASS-118-641				US-PATENT-APPL-SN-418138				US-PATENT-4,398,412
				US-PATENT-CLASS-427-399				US-PATENT-CLASS-244-158R		N84-28019*	c 35	NASA-CASE-LAR-12743-1
				US-PATENT-CLASS-427-53.1				US-PATENT-CLASS-244-172				US-PATENT-APPL-SN-372279
				US-PATENT-4,434,189				US-PATENT-CLASS-244-63				US-PATENT-CLASS-374-1
N84-22957*	c 37			NASA-CASE-LEW-13269-2				US-PATENT-4,452,412				US-PATENT-CLASS-73-1B
				US-PATENT-APPL-SN-242795		N84-27787*	c 18	NASA-CASE-MFS-25878-1				US-PATENT-4,426,874
				US-PATENT-APPL-SN-431448				US-PATENT-APPL-SN-431886		N84-28065*	c 36	NASA-CASE-GSC-12592-1
				US-PATENT-CLASS-415-174				US-PATENT-CLASS-244-172				US-PATENT-APPL-SN-199766
				US-PATENT-CLASS-427-34				US-PATENT-CLASS-244-2				US-PATENT-CLASS-372-103
				US-PATENT-CLASS-427-423				US-PATENT-CLASS-244-63				US-PATENT-CLASS-372-4
				US-PATENT-CLASS-427-53.1				US-PATENT-4,451,017				US-PATENT-CLASS-372-71
				US-PATENT-CLASS-428-155		N84-27829*	c 24	NASA-CASE-LEW-13758-1				US-PATENT-CLASS-372-93
				US-PATENT-4,377,371				US-PATENT-APPL-SN-418139				US-PATENT-CLASS-372-95
				US-PATENT-4,430,360				US-PATENT-CLASS-73-833		N84-28081*	c 37	US-PATENT-4,446,556
N84-22958*	c 37			NASA-CASE-LEW-12590-1				US-PATENT-CLASS-73-856				NASA-CASE-NPO-14597-2
				US-PATENT-APPL-SN-229693				US-PATENT-4,452,088				US-PATENT-APPL-SN-037194
				US-PATENT-CLASS-60-730		N84-27855*	c 26	NASA-CASE-LEW-13639-2				US-PATENT-APPL-SN-401288
				US-PATENT-CLASS-60-736				US-PATENT-APPL-SN-456460				US-PATENT-CLASS-417-328
				US-PATENT-4,429,537				US-PATENT-CLASS-427-34				US-PATENT-CLASS-417-392
N84-23012* #	c 43			NASA-CASE-NPO-15656-1				US-PATENT-CLASS-427-405				US-PATENT-CLASS-417-462
				US-PATENT-APPL-SN-569370				US-PATENT-CLASS-427-419.2				US-PATENT-4,449,894
N84-23018*	c 44			NASA-CASE-NPO-15496-1				US-PATENT-CLASS-428-632		N84-28082*	c 37	NASA-CASE-GSC-12550-1
				US-PATENT-APPL-SN-379602				US-PATENT-4,451,496				US-PATENT-APPL-SN-238888
				US-PATENT-CLASS-290-55		N84-27884*	c 27	NASA-CASE-ARC-11405-1				US-PATENT-CLASS-73-468
				US-PATENT-CLASS-415-DIG.8				US-PATENT-APPL-SN-415880				US-PATENT-CLASS-74-5.5
				US-PATENT-CLASS-415-2R				US-PATENT-CLASS-528-271				US-PATENT-CLASS-74-573R
				US-PATENT-CLASS-60-641.12				US-PATENT-CLASS-528-310				US-PATENT-4,458,554
				US-PATENT-CLASS-60-698				US-PATENT-CLASS-528-327		N84-28083*	c 37	NASA-CASE-GSC-12762-1
				US-PATENT-CLASS-60-716				US-PATENT-CLASS-528-331				US-PATENT-APPL-SN-364094
				US-PATENT-4,433,544				US-PATENT-CLASS-528-362				US-PATENT-CLASS-269-224
N84-23019*	c 44			NASA-CASE-LAR-12958-1				US-PATENT-4,450,268				US-PATENT-CLASS-269-244
				US-PATENT-APPL-SN-433196		N84-27885*	c 27	NASA-CASE-LEW-13770-1				US-PATENT-CLASS-269-252
				US-PATENT-CLASS-104-DIG.4				US-PATENT-APPL-SN-404809				US-PATENT-CLASS-269-285
				US-PATENT-CLASS-204-DIG.3				US-PATENT-CLASS-526-262				US-PATENT-4,448,408
				US-PATENT-CLASS-204-129				US-PATENT-CLASS-528-322		N84-28084*	c 37	NASA-CASE-LAR-12644-1
				US-PATENT-CLASS-204-278				US-PATENT-CLASS-528-342				US-PATENT-APPL-SN-387728
				US-PATENT-CLASS-204-280				US-PATENT-4,455,418				US-PATENT-CLASS-74-753
				US-PATENT-CLASS-423-303		N84-27886*	c 27	NASA-CASE-LAR-12862-1				US-PATENT-CLASS-74-758
				US-PATENT-CLASS-429-111				US-PATENT-APPL-SN-435511				US-PATENT-CLASS-74-812
				US-PATENT-4,439,301				US-PATENT-CLASS-220-306				US-PATENT-4,446,757
N84-23095*	c 52			NASA-CASE-LEW-13107-2				US-PATENT-CLASS-244-117A		N84-28085*	c 37	NASA-CASE-LAR-12786-1
				US-PATENT-APPL-SN-444124				US-PATENT-CLASS-244-158A				US-PATENT-APPL-SN-309292
				US-PATENT-CLASS-156-643				US-PATENT-4,456,208				US-PATENT-CLASS-30-180
				US-PATENT-CLASS-156-644		N84-27951*	c 32	NASA-CASE-NPO-15024-1				US-PATENT-CLASS-30-188
				US-PATENT-CLASS-156-668				US-PATENT-APPL-SN-284287				US-PATENT-CLASS-30-228
				US-PATENT-CLASS-204-192E				US-PATENT-CLASS-343-17.7				US-PATENT-CLASS-30-249
				US-PATENT-4,432,853				US-PATENT-CLASS-434-2				US-PATENT-CLASS-30-272R
N84-23113*	c 54			NASA-CASE-MSC-20261-2				US-PATENT-4,450,447				US-PATENT-4,458,418
				US-PATENT-APPL-SN-393581		N84-27952*	c 32	NASA-CASE-MSC-16170-2		N84-28203*	c 44	NASA-CASE-NPO-15388-1
				US-PATENT-CLASS-2-161R				US-PATENT-APPL-SN-147695				US-PATENT-APPL-SN-284286
				US-PATENT-CLASS-2-167				US-PATENT-APPL-SN-737975				US-PATENT-CLASS-126-419
				US-PATENT-4,433,439				US-PATENT-CLASS-329-124				US-PATENT-CLASS-126-438
N84-23233*	c 71			NASA-CASE-NPO-15689-1				US-PATENT-CLASS-375-120				US-PATENT-CLASS-126-451
				US-PATENT-APPL-SN-358089				US-PATENT-CLASS-375-77				US-PATENT-4,433,672
				US-PATENT-CLASS-310-300				US-PATENT-CLASS-375-81		N84-28204*	c 44	NASA-CASE-NPO-15662-1
				US-PATENT-CLASS-318-116				US-PATENT-CLASS-455-202				US-PATENT-APPL-SN-392103
				US-PATENT-CLASS-60-721				US-PATENT-CLASS-455-208				US-PATENT-CLASS-126-418
				US-PATENT-CLASS-73-505				US-PATENT-CLASS-455-260				US-PATENT-CLASS-126-438
				US-PATENT-4,420,977				US-PATENT-CLASS-455-265				US-PATENT-CLASS-126-440
N84-23247*	c 74			NASA-CASE-NPO-15345-1				US-PATENT-4,455,680				US-PATENT-4,449,514
				US-PATENT-APPL-SN-276749		N84-27974*	c 33	NASA-CASE-LEW-13736-1		N84-28205*	c 44	NASA-CASE-LEW-13653-1
				US-PATENT-CLASS-358-125				US-PATENT-APPL-SN-434084				US-PATENT-APPL-SN-352821
				US-PATENT-CLASS-358-213				US-PATENT-CLASS-315-3.6				US-PATENT-CLASS-204-290
				US-PATENT-4,430,673				US-PATENT-CLASS-315-39.3				US-PATENT-CLASS-29-623.5
N84-23248*	c 74			NASA-CASE-GSC-12756-1				US-PATENT-CLASS-331-82				US-PATENT-CLASS-29-825
				US-PATENT-APPL-SN-378535				US-PATENT-CLASS-333-162				US-PATENT-CLASS-427-113
				US-PATENT-CLASS-350-172				US-PATENT-4,459,562				US-PATENT-CLASS-427-115
				US-PATENT-CLASS-350-173		N84-27975*	c 33	NASA-CASE-MFS-25854-1				

		US-PATENT-CLASS-427-125				US-PATENT-APPL-SN-452466			US-PATENT-CLASS-250-251
		US-PATENT-CLASS-427-226				US-PATENT-CLASS-297-DIG.5			US-PATENT-CLASS-250-252.1
		US-PATENT-CLASS-427-372.2				US-PATENT-CLASS-428-246			US-PATENT-CLASS-250-372
		US-PATENT-CLASS-427-379				US-PATENT-CLASS-428-280			US-PATENT-4,469,942
		US-PATENT-CLASS-427-380				US-PATENT-CLASS-428-287	N84-33768*	c 35	NAS 1.71:MFS-25717-1
		US-PATENT-CLASS-427-443				US-PATENT-CLASS-428-304.4			NASA-CASE-MFS-25717-1
		US-PATENT-CLASS-429-44				US-PATENT-CLASS-428-319.1			US-PATENT-APPL-SN-441897
		US-PATENT-4,454,649				US-PATENT-CLASS-428-423.5			US-PATENT-CLASS-175-45
N84-28292*	c 47	NASA-CASE-LAR-12971-1				US-PATENT-CLASS-428-71			US-PATENT-CLASS-299-1
		US-PATENT-APPL-SN-444149				US-PATENT-CLASS-428-76			US-PATENT-4,466,667
		US-PATENT-CLASS-250-356.1				US-PATENT-CLASS-428-921	N84-33769*	c 35	NAS 1.71:NPO-15341-1
		US-PATENT-CLASS-73-189				US-PATENT-CLASS-5-459			NASA-CASE-NPO-15341-1
		US-PATENT-CLASS-73-861.71				US-PATENT-4,463,465			US-PATENT-APPL-SN-315583
		US-PATENT-4,449,400	N84-33400* #	c 05		NAS 1.71:LAR-13233-1			US-PATENT-CLASS-180-168
N84-28361*	c 51	NASA-CASE-ARC-11359-1				NASA-CASE-LAR-13233-1			US-PATENT-CLASS-318-587
		US-PATENT-APPL-SN-392092				US-PATENT-APPL-SN-649329			US-PATENT-CLASS-340-905
		US-PATENT-CLASS-264-41	N84-33410*	c 07		NAS 1.71:LEW-13524-1			US-PATENT-CLASS-340-988
		US-PATENT-CLASS-521-141				NASA-CASE-LEW-13524-1			US-PATENT-4,472,716
		US-PATENT-CLASS-521-142				US-PATENT-APPL-SN-238257	N84-33807*	c 37	NAS 1.71:MFS-25862-2
		US-PATENT-CLASS-521-149				US-PATENT-CLASS-415-115			NASA-CASE-MFS-25862-2
		US-PATENT-4,456,708				US-PATENT-CLASS-60-39.29			US-PATENT-APPL-SN-460509
N84-28388*	c 52	NASA-CASE-LAR-12650-1				US-PATENT-CLASS-60-39.83			US-PATENT-CLASS-73-12
		US-PATENT-APPL-SN-264381				US-PATENT-4,416,111			US-PATENT-CLASS-73-588
		US-PATENT-CLASS-128-325	N84-33450*	c 18		NAS 1.71:LAR-12884			US-PATENT-4,470,293
		US-PATENT-CLASS-128-346				NASA-CASE-LAR-12884-1	N84-33808*	c 37	NAS 1.71:LEW-12995-1
		US-PATENT-CLASS-24-560				US-PATENT-APPL-SN-510136			NASA-CASE-LEW-12995-1
		US-PATENT-4,416,266				US-PATENT-CLASS-428-182			US-PATENT-APPL-SN-157150
N84-28389*	c 52	NASA-CASE-LAR-12650-2				US-PATENT-CLASS-428-184			US-PATENT-CLASS-60-303
		US-PATENT-APPL-SN-264381				US-PATENT-CLASS-428-595			US-PATENT-CLASS-60-606
		US-PATENT-APPL-SN-465363				US-PATENT-CLASS-52-814			US-PATENT-4,449,370
		US-PATENT-CLASS-156-191				US-PATENT-4,472,473	N84-34443*	c 06	NASA-CASE-NPO-15351-2
		US-PATENT-CLASS-156-285	N84-33555*	c 26		NAS 1.71:LEW-13639-1			US-PATENT-APPL-SN-224231
		US-PATENT-CLASS-156-289				NASA-CASE-LEW-13639-1			US-PATENT-APPL-SN-412039
		US-PATENT-CLASS-156-382				US-PATENT-APPL-SN-403378			US-PATENT-CLASS-73-178-R
		US-PATENT-CLASS-29-423				US-PATENT-CLASS-416-241R			US-PATENT-4,346,595
		US-PATENT-CLASS-29-451				US-PATENT-CLASS-428-564			US-PATENT-4,474,062
		US-PATENT-4,447,943				US-PATENT-CLASS-428-639	N84-34448*	c 09	NASA-CASE-LAR-12950-1
N84-28484*	c 54	NASA-CASE-MSC-20261-1				US-PATENT-CLASS-428-678			US-PATENT-APPL-SN-481106
		US-PATENT-APPL-SN-393586				US-PATENT-4,446,199			US-PATENT-CLASS-73-147
		US-PATENT-CLASS-2-161R	N84-33589*	c 27		NAS 1.71:NPO-15753-1			US-PATENT-4,475,385
		US-PATENT-CLASS-2-164				NASA-CASE-NPO-15753-1	N84-34571*	c 24	NAS 1.71:LAR-13230-1
		US-PATENT-CLASS-2-167				US-PATENT-APPL-SN-342871			NASA-CASE-LAR-13230-1
		US-PATENT-4,454,611				US-PATENT-CLASS-219-203			US-PATENT-APPL-SN-548584
N84-28491*	c 60	NASA-CASE-GSC-12447-2				US-PATENT-CLASS-219-219			US-PATENT-CLASS-523-454
		US-PATENT-APPL-SN-128230				US-PATENT-CLASS-219-522			US-PATENT-CLASS-523-458
		US-PATENT-APPL-SN-501060				US-PATENT-CLASS-219-541			US-PATENT-CLASS-525-484
		US-PATENT-CLASS-364-900				US-PATENT-CLASS-219-543			US-PATENT-CLASS-528-407
		US-PATENT-4,435,781				US-PATENT-CLASS-338-309			US-PATENT-CLASS-528-92
N84-28492*	c 60	NASA-CASE-MSC-20258-1				US-PATENT-CLASS-428-432			US-PATENT-4,473,674
		US-PATENT-APPL-SN-235472				US-PATENT-4,459,470	N84-34651*	c 32	NAS 1.71:NPO-15519-1
		US-PATENT-CLASS-340-825.21	N84-33660*	c 33		NAS 1.71:MFS-25302-2			NASA-CASE-NPO-15519-1
		US-PATENT-CLASS-340-825.5				NASA-CASE-MFS-25302-2			US-PATENT-APPL-SN-314928
		US-PATENT-CLASS-364-900				US-PATENT-APPL-SN-243683			US-PATENT-CLASS-343-5-CM
		US-PATENT-4,446,459				US-PATENT-APPL-SN-481086			US-PATENT-CLASS-343-5-DP
N84-28565*	c 70	NASA-CASE-LEW-12919-2				US-PATENT-CLASS-307-87			US-PATENT-CLASS-343-5-FT
		US-PATENT-APPL-SN-264378				US-PATENT-CLASS-322-25			US-PATENT-4,471,357
		US-PATENT-APPL-SN-364072				US-PATENT-CLASS-322-29	N84-34705*	c 35	NAS 1.71:NPO-15558-1
		US-PATENT-CLASS-313-106				US-PATENT-CLASS-322-47			NASA-CASE-NPO-15558-1
		US-PATENT-CLASS-313-107				US-PATENT-CLASS-322-95			US-PATENT-APPL-SN-373770
		US-PATENT-CLASS-313-351				US-PATENT-4,388,585			US-PATENT-CLASS-250-343
		US-PATENT-CLASS-315-5.38				US-PATENT-4,473,792			US-PATENT-CLASS-250-351
		US-PATENT-4,349,424	N84-33661*	c 33		NAS 1.71:MFS-25852-1			US-PATENT-CLASS-356-434
		US-PATENT-4,417,175				NASA-CASE-MFS-25852-1			US-PATENT-CLASS-356-51
N84-28568*	c 71	NASA-CASE-MFS-25828-1				US-PATENT-APPL-SN-450319			US-PATENT-4,474,471
		US-PATENT-APPL-SN-493866				US-PATENT-CLASS-318-729	N84-34792*	c 44	NAS 1.71:NPO-15808-1
		US-PATENT-CLASS-137-838				US-PATENT-CLASS-318-802			NASA-CASE-NPO-15808-1
		US-PATENT-CLASS-366-106				US-PATENT-4,469,998			US-PATENT-APPL-SN-383068
		US-PATENT-CLASS-425-6	N84-33663*	c 33		NAS 1.71:LEW-13495-1			US-PATENT-CLASS-126-415
		US-PATENT-CLASS-65-142				NASA-CASE-LEW-13495-1			US-PATENT-CLASS-4-498
		US-PATENT-CLASS-65-160				US-PATENT-APPL-SN-368188			US-PATENT-4,470,403
		US-PATENT-CLASS-65-21.3				US-PATENT-CLASS-323-901	N84-34913*	c 52	NASA-CASE-GSC-12652-1
		US-PATENT-CLASS-65-21.4				US-PATENT-CLASS-363-22			US-PATENT-APPL-SN-377891
		US-PATENT-4,447,251				US-PATENT-CLASS-363-49			US-PATENT-CLASS-128-24-A
N84-28575*	c 72	NASA-CASE-MFS-25641-1				US-PATENT-4,464,710			US-PATENT-CLASS-128-328
		US-PATENT-APPL-SN-342857	N84-33765*	c 35		NAS 1.71:GSC-12682-1			US-PATENT-4,474,180
		US-PATENT-CLASS-250-305				NASA-CASE-GSC-12682-1	N84-35112* #	c 76	NASA-CASE-NPO-15786-1
		US-PATENT-CLASS-324-457				US-PATENT-APPL-SN-350477			US-PATENT-APPL-SN-366103
		US-PATENT-CLASS-324-71.3				US-PATENT-CLASS-250-367			US-PATENT-CLASS-204-1T
		US-PATENT-CLASS-324-72.5				US-PATENT-CLASS-250-385			US-PATENT-CLASS-204-37.6
		US-PATENT-4,455,532				US-PATENT-CLASS-250-483.1			US-PATENT-CLASS-204-56R
N84-28590*	c 74	NASA-CASE-NPO-15805-1				US-PATENT-CLASS-357-29			US-PATENT-CLASS-324-158D
		US-PATENT-APPL-SN-296137				US-PATENT-CLASS-357-30			US-PATENT-CLASS-324-158T
		US-PATENT-CLASS-250-332				US-PATENT-CLASS-357-32			US-PATENT-4,462,871
		US-PATENT-CLASS-250-338				US-PATENT-4,472,728	N84-35113*	c 76	NASA-CASE-NPO-15629-1
		US-PATENT-4,443,701	N84-33766*	c 35		NAS 1.71:NPO-13556-1			US-PATENT-APPL-SN-371351
N84-28732*	c 02	NASA-CASE-LAR-12396-1				NASA-CASE-NPO-13556-1			US-PATENT-CLASS-156-DIG.64
		US-PATENT-APPL-SN-017889				US-PATENT-APPL-SN-561369			US-PATENT-CLASS-156-DIG.88
		US-PATENT-CLASS-244-35R				US-PATENT-CLASS-250-339			US-PATENT-CLASS-156-DIG.98
		US-PATENT-CLASS-416-223R				US-PATENT-CLASS-356-188			US-PATENT-CLASS-156-608
		US-PATENT-CLASS-416-242				US-PATENT-CLASS-356-189			US-PATENT-CLASS-156-617-5P
		US-PATENT-4,459,083				US-PATENT-CLASS-356-73			US-PATENT-CLASS-156-617-V
N84-32447* #	c 25	NAS 1.71:LAR-13257-1				US-PATENT-CLASS-356-74			US-PATENT-CLASS-422-246
		NASA-CASE-LAR-13257-1				US-PATENT-4,043,668			US-PATENT-CLASS-422-249
		US-PATENT-APPL-SN-633178	N84-33767*	c 35		NAS 1.71:NPO-15644-1			US-PATENT-4,469,552
N84-33394*	c 03	NAS 1.71:ARC-11423-1				NASA-CASE-NPO-15644-1	N85-19985*	c 08	NAS 1.71:LAR-12787-2
		NASA-CASE-ARC-11423-1				US-PATENT-APPL-SN-358088			NASA-CASE-LAR-12787-2

			US-PATENT-APPL-SN-301078				US-PATENT-CLASS-251-265	N85-21349*	c 27	NAS 1.71:LAR-12775-2
			US-PATENT-APPL-SN-526628				US-PATENT-CLASS-251-267			NASA-CASE-LAR-12775-2
			US-PATENT-CLASS-244-214				US-PATENT-CLASS-251-284			US-PATENT-APPL-SN-308201
			US-PATENT-CLASS-244-90R				US-PATENT-CLASS-251-297			US-PATENT-APPL-SN-461788
			US-PATENT-4,485,992				US-PATENT-CLASS-74-424.8B			US-PATENT-CLASS-525-181
N85-19990*	c 09		NAS 1.71:KSC-11218-1				US-PATENT-CLASS-74-424.8VA			US-PATENT-CLASS-525-182
			NASA-CASE-KSC-11218-1				US-PATENT-4,483,512			US-PATENT-CLASS-525-183
			US-PATENT-APPL-SN-387649	N85-20530*	c 44		NAS 1.71:LEW-13414-1			US-PATENT-CLASS-525-184
			US-PATENT-CLASS-434-242				NASA-CASE-LEW-13414-1			US-PATENT-CLASS-525-474
			US-PATENT-CLASS-434-243				US-PATENT-APPL-SN-465364			US-PATENT-4,389,504
			US-PATENT-CLASS-434-35				US-PATENT-CLASS-136-256	N85-21350*	c 27	US-PATENT-4,497,935
			US-PATENT-CLASS-434-49				US-PATENT-CLASS-427-85			NAS 1.71:LEW-13770-3
			US-PATENT-4,490,117				US-PATENT-4,478,879			NASA-CASE-LEW-13770-3
N85-20123*	c 27		NAS 1.71:LAR-12723-1	N85-21147*	c 05		NAS 1.71:LAR-12979-1			US-PATENT-APPL-SN-516217
			NASA-CASE-LAR-12723-1				NASA-CASE-LAR-12979-1			US-PATENT-APPL-SN-561431
			US-PATENT-APPL-SN-199768				US-PATENT-APPL-SN-508371			US-PATENT-CLASS-526-217
			US-PATENT-CLASS-525-420				US-PATENT-CLASS-244-139			US-PATENT-CLASS-526-262
			US-PATENT-CLASS-528-183				US-PATENT-CLASS-244-147			US-PATENT-CLASS-528-229
			US-PATENT-CLASS-528-192				US-PATENT-CLASS-244-75R			US-PATENT-CLASS-528-315
			US-PATENT-CLASS-528-220				US-PATENT-4,496,122			US-PATENT-CLASS-528-322
			US-PATENT-CLASS-528-336	N85-21178*	c 09		NAS 1.71:LAR-13014-1			US-PATENT-CLASS-528-336
			US-PATENT-CLASS-528-345				NASA-CASE-LAR-13014-1			US-PATENT-CLASS-528-342
			US-PATENT-4,395,540				US-PATENT-APPL-SN-527918			US-PATENT-4,497,948
N85-20124*	c 27		NAS 1.71:LAR-12858-2				US-PATENT-CLASS-73-147	N85-21351*	c 27	NAS 1.71:LEW-13770-4
			NASA-CASE-LAR-12858-2				US-PATENT-4,493,211			NASA-CASE-LEW-13770-4
			US-PATENT-APPL-SN-407240	N85-21256*	c 20		NAS 1.71:LEW-13881-1			US-PATENT-APPL-SN-516217
			US-PATENT-APPL-SN-492282				NASA-CASE-LEW-13881-1			US-PATENT-APPL-SN-561429
			US-PATENT-CLASS-264-DIG.65				US-PATENT-APPL-SN-473498			US-PATENT-CLASS-526-262
			US-PATENT-CLASS-264-112				US-PATENT-CLASS-60-202			US-PATENT-CLASS-528-229
			US-PATENT-CLASS-264-120				US-PATENT-4,466,242			US-PATENT-CLASS-528-322
			US-PATENT-CLASS-264-137	N85-21266*	c 24		NAS 1.71:LEW-13324-2			US-PATENT-CLASS-528-342
			US-PATENT-CLASS-264-152				NASA-CASE-LEW-13324-2			US-PATENT-4,497,939
			US-PATENT-CLASS-264-258				US-PATENT-APPL-SN-375784	N85-21352*	c 27	NAS 1.71:LEW-13770-5
			US-PATENT-CLASS-264-331.12				US-PATENT-APPL-SN-523297			NASA-CASE-LEW-13770-5
			US-PATENT-CLASS-264-331.19				US-PATENT-CLASS-428-633			US-PATENT-APPL-SN-516217
			US-PATENT-CLASS-528-226				US-PATENT-CLASS-428-656			US-PATENT-APPL-SN-561435
			US-PATENT-CLASS-528-239				US-PATENT-CLASS-428-678			US-PATENT-CLASS-526-262
			US-PATENT-CLASS-528-241				US-PATENT-CLASS-428-679			US-PATENT-CLASS-528-229
			US-PATENT-CLASS-528-258				US-PATENT-CLASS-428-680			US-PATENT-CLASS-528-322
			US-PATENT-CLASS-528-279				US-PATENT-CLASS-428-681			US-PATENT-CLASS-528-342
			US-PATENT-4,398,021				US-PATENT-CLASS-428-682			US-PATENT-4,497,940
			US-PATENT-4,489,027				US-PATENT-CLASS-428-683	N85-21404*	c 31	NAS 1.71:GSC-12799-1
N85-20125*	c 27		NAS 1.71:LAR-12894-1				US-PATENT-CLASS-428-684			NASA-CASE-GSC-12799-1
			NASA-CASE-LAR-12894-1				US-PATENT-4,485,151			US-PATENT-APPL-SN-461724
			US-PATENT-APPL-SN-516087	N85-21267*	c 24		NAS 1.71:LEW-13837-2			US-PATENT-CLASS-31-35
			US-PATENT-CLASS-156-273.7				NASA-CASE-LEW-13837-2			US-PATENT-CLASS-310-22
			US-PATENT-CLASS-24-304				US-PATENT-APPL-SN-495381			US-PATENT-CLASS-417-417
			US-PATENT-CLASS-24-447				US-PATENT-APPL-SN-591089			US-PATENT-CLASS-417-488
			US-PATENT-CLASS-24-450				US-PATENT-CLASS-204-192C			US-PATENT-CLASS-62-6
			US-PATENT-CLASS-24-693				US-PATENT-CLASS-204-192N			US-PATENT-CLASS-92-98R
			US-PATENT-4,488,335				US-PATENT-CLASS-204-192R			US-PATENT-4,500,265
N85-20126*	c 27		NAS 1.71:MFS-25862-1				US-PATENT-CLASS-423-445	N85-21427*	c 32	NAS 1.71:MSC-18578-1
			NASA-CASE-MFS-25862-1				US-PATENT-CLASS-423-446			NASA-CASE-MSC-18578-1
			US-PATENT-APPL-SN-465366				US-PATENT-CLASS-423-449			US-PATENT-APPL-SN-367132
			US-PATENT-CLASS-73-579				US-PATENT-CLASS-427-39			US-PATENT-CLASS-358-161
			US-PATENT-CLASS-73-582				US-PATENT-4,437,962			US-PATENT-CLASS-358-174
			US-PATENT-CLASS-73-588				US-PATENT-4,495,044			US-PATENT-CLASS-358-217
			US-PATENT-4,479,386	N85-21279*	c 25		NAS 1.71:GSC-12808-1			US-PATENT-CLASS-358-219
N85-20153*	c 31		NAS 1.71:LEW-14080-1				NASA-CASE-GSC-12808-1			US-PATENT-4,495,520
			NASA-CASE-LEW-14080-1				US-PATENT-APPL-SN-462497	N85-21428*	c 32	NAS 1.71:NPO-15433-1
			US-PATENT-APPL-SN-628866				US-PATENT-CLASS-376-159			NASA-CASE-NPO-15433-1
			US-PATENT-CLASS-204-192C				US-PATENT-4,483,817			US-PATENT-APPL-SN-250585
			US-PATENT-CLASS-204-192R	N85-21280*	c 25		NAS 1.71:MFS-25721-1			US-PATENT-CLASS-364-200
			US-PATENT-CLASS-204-192SP				NASA-CASE-MFS-25721-1			US-PATENT-4,493,021
			US-PATENT-CLASS-423-DIG.10				US-PATENT-APPL-SN-492964	N85-21491*	c 33	NAS 1.71:NPO-15560-1
			US-PATENT-CLASS-423-414				US-PATENT-CLASS-556-410			NASA-CASE-NPO-15560-1
			US-PATENT-CLASS-423-445				US-PATENT-4,474,975			US-PATENT-APPL-SN-275909
			US-PATENT-CLASS-423-446				NAS 1.71:ARC-11368-2			US-PATENT-CLASS-250-426
			US-PATENT-CLASS-423-449	N85-21347*	c 27		NASA-CASE-ARC-11368-2			US-PATENT-CLASS-313-131A
			US-PATENT-4,490,229				US-PATENT-APPL-SN-175452			US-PATENT-CLASS-315-111.31
N85-20294*	c 35		NAS 1.71:GSC-12789-1				US-PATENT-APPL-SN-288267			US-PATENT-CLASS-315-111.81
			NASA-CASE-GSC-12789-1				US-PATENT-APPL-SN-502820			US-PATENT-4,475,063
			US-PATENT-APPL-SN-409680				US-PATENT-CLASS-526-262	N85-21492*	c 33	NAS 1.71:LEW-13833-1
			US-PATENT-CLASS-177-147				US-PATENT-CLASS-526-274			NASA-CASE-LEW-13833-1
			US-PATENT-CLASS-177-260				US-PATENT-CLASS-528-167			US-PATENT-APPL-SN-486471
			US-PATENT-CLASS-73-862.54				US-PATENT-CLASS-528-168			US-PATENT-CLASS-136-255
			US-PATENT-4,479,560				US-PATENT-CLASS-528-170			US-PATENT-CLASS-357-12
N85-20295*	c 35		NAS 1.71:LAR-13065-1				US-PATENT-CLASS-528-321			US-PATENT-CLASS-357-30
			NASA-CASE-LAR-13065-1				US-PATENT-CLASS-528-322			US-PATENT-4,482,779
			US-PATENT-APPL-SN-484745				US-PATENT-4,276,344	N85-21493*	c 33	NAS 1.71:NPO-15920-1
			US-PATENT-CLASS-73-187				US-PATENT-4,395,557			NASA-CASE-NPO-15920-1
			US-PATENT-4,485,671				US-PATENT-4,496,701			US-PATENT-APPL-SN-403848
N85-20300* #	c 35		NAS 1.71:MFS-28008-1	N85-21348*	c 27		NASA-CASE-ARC-11413-1			US-PATENT-CLASS-343-17.7
			NASA-CASE-MFS-28008-1				US-PATENT-APPL-SN-440656			US-PATENT-CLASS-343-376
			US-PATENT-APPL-SN-684194				US-PATENT-CLASS-528-125			US-PATENT-4,488,155
N85-20337*	c 37		NAS 1.71:GSC-12582-2				US-PATENT-CLASS-528-126	N85-21568*	c 34	NAS 1.71:LAR-12588-1
			NASA-CASE-GSC-12582-2				US-PATENT-CLASS-528-128			NASA-CASE-LAR-12588-1
			US-PATENT-APPL-SN-220213				US-PATENT-CLASS-528-166			US-PATENT-APPL-SN-234222
			US-PATENT-APPL-SN-415960				US-PATENT-CLASS-528-185			US-PATENT-CLASS-165-104.26
			US-PATENT-CLASS-104-281				US-PATENT-CLASS-528-186			US-PATENT-CLASS-73-179
			US-PATENT-CLASS-104-284				US-PATENT-CLASS-528-187			US-PATENT-CLASS-73-708
			US-PATENT-CLASS-308-10				US-PATENT-CLASS-528-226			US-PATENT-4,485,670
			US-PATENT-4,473,259				US-PATENT-CLASS-528-229	N85-21595*	c 35	NAS 1.71:MSC-20275-1
N85-20338*	c 37		NAS 1.71:MSC-20112-1				US-PATENT-CLASS-528-352			NASA-CASE-MSC-20275-1
			NASA-CASE-MSC-20112-1				US-PATENT-CLASS-528-353			US-PATENT-APPL-SN-425205
			US-PATENT-APPL-SN-392104				US-PATENT-4,499,260			US-PATENT-CLASS-222-309

		US-PATENT-CLASS-222-340			US-PATENT-CLASS-343-5W			US-PATENT-CLASS-358-109
		US-PATENT-CLASS-222-43			US-PATENT-4,463,357			US-PATENT-CLASS-358-133
		US-PATENT-CLASS-222-48			NAS 1.71:NPO-15295-1			US-PATENT-4,513,317
N85-21596*	c 35	US-PATENT-4,488,663	N85-21992*	c 60	NASA-CASE-NPO-15295-1	N85-29118*	c 32	NASA-CASE-NPO-15743-1
		NAS 1.71:NPO-15759-1			US-PATENT-APPL-SN-291645			US-PATENT-APPL-SN-448881
		NASA-CASE-NPO-15759-1			US-PATENT-CLASS-364-200			US-PATENT-CLASS-343-876
		US-PATENT-APPL-SN-367136			US-PATENT-4,481,570			US-PATENT-CLASS-455-73
		US-PATENT-CLASS-324-427	N85-22104*	c 71	NAS 1.71:NPO-15466-1	N85-29142*	c 33	US-PATENT-4,503,436
		US-PATENT-CLASS-429-58			NASA-CASE-NPO-15466-1			NASA-CASE-NPO-15553-1
		US-PATENT-4,499,424			US-PATENT-APPL-SN-361217			US-PATENT-APPL-SN-437912
N85-21597*	c 35	NAS 1.71:NPO-16027-1			US-PATENT-CLASS-23-313R			US-PATENT-CLASS-156-DIG.62
		NASA-CASE-NPO-16027-1			US-PATENT-CLASS-55-15			US-PATENT-CLASS-364-400
		US-PATENT-APPL-SN-500044			US-PATENT-CLASS-55-277			US-PATENT-CLASS-364-453
		US-PATENT-CLASS-73-40.5A			US-PATENT-4,475,921			US-PATENT-CLASS-74-5.6D
		US-PATENT-CLASS-73-753	N85-22105*	c 71	NAS 1.71:NPO-16022-1			US-PATENT-4,521,854
		US-PATENT-4,498,333			NASA-CASE-NPO-16022-1	N85-29143*	c 33	NASA-CASE-NPO-15890-1 CU
N85-21598*	c 35	NAS 1.71:WLP-10055-2			US-PATENT-APPL-SN-526750			US-PATENT-APPL-SN-556513
		NASA-CASE-WLP-10055-2			US-PATENT-CLASS-73-505			US-PATENT-CLASS-331-3
		US-PATENT-APPL-SN-352827			US-PATENT-4,463,606			US-PATENT-CLASS-331-31
		US-PATENT-APPL-SN-526770	N85-22139*	c 74	NAS 1.71:NPO-15155-1			US-PATENT-CLASS-331-36C
		US-PATENT-CLASS-29-610SG			NASA-CASE-NPO-15155-1			US-PATENT-CLASS-331-94.1
		US-PATENT-4,425,808			US-PATENT-APPL-SN-242797			US-PATENT-CLASS-331-96
		US-PATENT-4,498,231			US-PATENT-CLASS-250-221			US-PATENT-CLASS-333-231
N85-21631*	c 36	NAS 1.71:NPO-15790-1			US-PATENT-CLASS-340-555			US-PATENT-4,517,530
		NASA-CASE-NPO-15790-1			US-PATENT-4,479,053	N85-29144*	c 33	NASA-CASE-LEW-13102-1
		US-PATENT-APPL-SN-423016	N85-22877*	c 33	NAS 1.71:MFS-25861-1			US-PATENT-APPL-SN-282298
		US-PATENT-CLASS-250-339			NASA-CASE-MFS-25861-1			US-PATENT-CLASS-429-206
		US-PATENT-CLASS-250-343			US-PATENT-APPL-SN-504345			US-PATENT-CLASS-429-249
		US-PATENT-4,489,239			US-PATENT-CLASS-318-729			US-PATENT-4,505,998
N85-21639*	c 36	NAS 1.71:GSC-12558-1			US-PATENT-CLASS-318-812	N85-29145*	c 33	NASA-CASE-GSC-12788-1
		NASA-CASE-GSC-12558-1			US-PATENT-4,489,264			US-PATENT-APPL-SN-434085
		US-PATENT-APPL-SN-383086	N85-23396*	c 74	NAS 1.71:NPO-15801-1			US-PATENT-CLASS-307-271
		US-PATENT-CLASS-356-43			NASA-CASE-NPO-15801-1			US-PATENT-CLASS-307-520
		US-PATENT-CLASS-356-45			US-PATENT-APPL-SN-478130			US-PATENT-CLASS-307-521
		US-PATENT-CLASS-374-137			US-PATENT-CLASS-350-168			US-PATENT-CLASS-307-529
		US-PATENT-CLASS-73-705			US-PATENT-CLASS-350-505			US-PATENT-CLASS-328-167
		US-PATENT-4,493,553			US-PATENT-CLASS-350-619			US-PATENT-CLASS-330-302
N85-21649*	c 37	NAS 1.71:MSC-20319-1			US-PATENT-CLASS-356-323			US-PATENT-CLASS-330-306
		NASA-CASE-MSC-20319-1			US-PATENT-CLASS-356-330			US-PATENT-4,521,702
		US-PATENT-APPL-SN-393582			US-PATENT-CLASS-356-331	N85-29146*	c 33	NASA-CASE-GSC-12817-1
		US-PATENT-CLASS-292-252			US-PATENT-4,497,540			US-PATENT-APPL-SN-506477
		US-PATENT-CLASS-403-317	N85-25436* #	c 24	NAS 1.15:76884			US-PATENT-CLASS-336-198
		US-PATENT-CLASS-81-177G			NASA-TM-76884			US-PATENT-CLASS-336-84C
		US-PATENT-4,483,639	N85-28973*	c 23	NASA-CASE-LAR-13262-1			US-PATENT-4,510,476
N85-21650*	c 37	NAS 1.71:NPO-15483-1			US-PATENT-APPL-SN-608741	N85-29147*	c 33	NASA-CASE-GSC-12818-1
		NASA-CASE-NPO-15483-1			US-PATENT-CLASS-525-532			US-PATENT-APPL-SN-511362
		US-PATENT-APPL-SN-387648			US-PATENT-CLASS-525-534			US-PATENT-CLASS-307-82
		US-PATENT-CLASS-125-13R			US-PATENT-CLASS-528-86			US-PATENT-CLASS-363-100
		US-PATENT-CLASS-125-15			US-PATENT-4,510,296			US-PATENT-CLASS-363-19
		US-PATENT-CLASS-51-73R	N85-28982*	c 25	NASA-CASE-LEW-13770-2			US-PATENT-CLASS-363-23
		US-PATENT-CLASS-82-90			US-PATENT-APPL-SN-404809			US-PATENT-CLASS-363-61
		US-PATENT-CLASS-83-664			US-PATENT-APPL-SN-516217			US-PATENT-CLASS-363-71
		US-PATENT-CLASS-83-676			US-PATENT-CLASS-526-262			US-PATENT-CLASS-378-104
		US-PATENT-4,475,527			US-PATENT-CLASS-528-322			US-PATENT-CLASS-378-112
N85-21651*	c 37	NAS 1.71:LAR-12868-1			US-PATENT-CLASS-528-342	N85-29179*	c 34	US-PATENT-4,517,472
		NASA-CASE-LAR-12868-1			US-PATENT-4,455,418			NASA-CASE-LEW-12950-2
		US-PATENT-APPL-SN-322321			US-PATENT-4,514,557			US-PATENT-APPL-SN-202228
		US-PATENT-CLASS-374-208	N85-29005*	c 26	NASA-CASE-NPO-15928-1			US-PATENT-APPL-SN-507626
		US-PATENT-CLASS-374-210			US-PATENT-APPL-SN-537616			US-PATENT-CLASS-165-104.14
		US-PATENT-4,491,427			US-PATENT-CLASS-204-192N			US-PATENT-CLASS-165-32
N85-21652*	c 37	NAS 1.71:NPO-15851-1			US-PATENT-CLASS-427-38			US-PATENT-CLASS-310-306
		NASA-CASE-NPO-15851-1			US-PATENT-CLASS-427-47			US-PATENT-4,506,183
		US-PATENT-APPL-SN-415879			US-PATENT-4,522,844	N85-29180*	c 34	NASA-CASE-MSC-20497-1
		US-PATENT-CLASS-134-37			NASA-CASE-NPO-16103-1			US-PATENT-APPL-SN-615505
		US-PATENT-CLASS-15-406	N85-29043*	c 27	US-PATENT-APPL-SN-617871			US-PATENT-CLASS-122-366
		US-PATENT-CLASS-422-129			US-PATENT-CLASS-525-26			US-PATENT-CLASS-165-1
		US-PATENT-CLASS-422-199			US-PATENT-CLASS-525-47			US-PATENT-CLASS-165-104.26
		US-PATENT-4,500,492			US-PATENT-CLASS-526-328			US-PATENT-4,515,207
N85-21723*	c 43	NAS 1.71:NPO-15651-1			US-PATENT-CLASS-526-329.2	N85-29182* #	c 34	NAS 1.71:NPO-16494-1 CU
		NASA-CASE-NPO-15651-1			US-PATENT-CLASS-528-288			NASA-CASE-NPO-16494-1 CU
		US-PATENT-APPL-SN-375620			US-PATENT-CLASS-528-289			US-PATENT-APPL-SN-739789
		US-PATENT-CLASS-343-352			US-PATENT-CLASS-528-303	N85-29212*	c 35	NASA-CASE-NPO-15722-1
		US-PATENT-CLASS-374-122			US-PATENT-CLASS-528-304			US-PATENT-APPL-SN-457992
		US-PATENT-4,499,470			US-PATENT-4,523,008			US-PATENT-CLASS-204-1T
N85-21768*	c 44	NAS 1.71:LEW-13827-1	N85-29044*	c 27	NASA-CASE-GSC-12883-1			US-PATENT-CLASS-204-430
		NASA-CASE-LEW-13827-1			US-PATENT-APPL-SN-604337			US-PATENT-CLASS-73-336.5
		US-PATENT-APPL-SN-486470			US-PATENT-CLASS-523-135			US-PATENT-4,514,178
		US-PATENT-CLASS-136-225			US-PATENT-CLASS-524-388	N85-29213*	c 35	NASA-CASE-MSC-18866-1
		US-PATENT-CLASS-136-246			US-PATENT-CLASS-524-567			US-PATENT-APPL-SN-350471
		US-PATENT-CLASS-357-30			US-PATENT-4,518,722			US-PATENT-CLASS-422-103
		US-PATENT-4,482,778	N85-29082*	c 31	NASA-CASE-NPO-16257-1			US-PATENT-CLASS-422-86
N85-21769*	c 44	NAS 1.71:MFS-25637-1			US-PATENT-APPL-SN-588164			US-PATENT-CLASS-422-88
		NASA-CASE-MFS-25637-1			US-PATENT-CLASS-62-3			US-PATENT-CLASS-436-2
		US-PATENT-APPL-SN-375684			US-PATENT-4,507,928			US-PATENT-CLASS-73-40.7
		US-PATENT-CLASS-290-1R	N85-29083*	c 31	NASA-CASE-LAR-13181-1			US-PATENT-CLASS-73-863.86
		US-PATENT-CLASS-290-4R			US-PATENT-APPL-SN-507623			US-PATENT-CLASS-73-864.52
		US-PATENT-CLASS-307-64			US-PATENT-CLASS-156-272.4			US-PATENT-4,515,751
		US-PATENT-CLASS-307-66			US-PATENT-CLASS-156-273.9	N85-29214*	c 35	NASA-CASE-MSC-25707-1
		US-PATENT-CLASS-318-46			US-PATENT-CLASS-156-380.2			US-PATENT-APPL-SN-359627
		US-PATENT-CLASS-318-729			US-PATENT-CLASS-219-10.43			US-PATENT-CLASS-126-263
		US-PATENT-4,489,243			US-PATENT-CLASS-219-10.49			US-PATENT-CLASS-165-48R
N85-21846*	c 46	NAS 1.71:NPO-15430-1			US-PATENT-CLASS-219-10.53			US-PATENT-CLASS-165-61
		NASA-CASE-NPO-15430-1			US-PATENT-CLASS-219-10.77			US-PATENT-CLASS-165-64
		US-PATENT-APPL-SN-322317	N85-29117*	c 32	US-PATENT-4,521,659			US-PATENT-CLASS-244-163
		US-PATENT-CLASS-343-352			NASA-CASE-NPO-15432-1			US-PATENT-4,513,810
		US-PATENT-CLASS-343-460			US-PATENT-APPL-SN-425204	N85-29264*	c 36	NASA-CASE-NPO-16000-1

			US-PATENT-APPL-SN-384547				US-PATENT-APPL-SN-516217				US-PATENT-CLASS-148-33.2															
			US-PATENT-CLASS-250-339				US-PATENT-APPL-SN-561434				US-PATENT-CLASS-156-DIG.65															
			US-PATENT-CLASS-364-556				US-PATENT-CLASS-526-204				US-PATENT-CLASS-156-DIG.88															
			US-PATENT-4,509,130				US-PATENT-CLASS-526-217				US-PATENT-CLASS-156-612															
N85-29282*	c 37		NASA-CASE-NPO-15037-2				US-PATENT-CLASS-526-262				US-PATENT-CLASS-29-576E															
			US-PATENT-APPL-SN-161257				US-PATENT-CLASS-528-314				US-PATENT-CLASS-29-576J															
			US-PATENT-APPL-SN-431420				US-PATENT-CLASS-528-322				US-PATENT-CLASS-29-576W															
			US-PATENT-CLASS-415-1				US-PATENT-4,495,339				US-PATENT-CLASS-29-578															
			US-PATENT-CLASS-415-68		N85-30187*	c 33	NASA-CASE-NPO-16021-1				US-PATENT-CLASS-357-4															
			US-PATENT-4,514,137				US-PATENT-APPL-SN-402205				US-PATENT-CLASS-357-50															
N85-29283*	c 37		NASA-CASE-MS-C-18852-1				US-PATENT-CLASS-324-158R		N85-30923*	c 76	NASA-CASE-LAR-12893-1															
			US-PATENT-APPL-SN-392094				US-PATENT-CLASS-324-65R				US-PATENT-APPL-SN-364041															
			US-PATENT-CLASS-239-DIG.23				US-PATENT-4,516,071				US-PATENT-CLASS-204-1T															
			US-PATENT-CLASS-239-288		N85-30281*	c 35	NASA-CASE-GSC-12851-1				US-PATENT-CLASS-324-158D															
			US-PATENT-CLASS-239-322				US-PATENT-APPL-SN-459842				US-PATENT-CLASS-324-71.5															
			US-PATENT-CLASS-239-327				US-PATENT-CLASS-250-363S				US-PATENT-4,511,838															
			US-PATENT-CLASS-239-375				US-PATENT-CLASS-250-369				N85-33187*	c 23	NASA-CASE-ARC-11243-2													
			US-PATENT-CLASS-239-590				US-PATENT-4,521,688						US-PATENT-APPL-SN-183707													
			US-PATENT-CLASS-55-DIG.42		N85-30282*	c 35	NASA-CASE-LAR-12966-1						US-PATENT-CLASS-549-335													
			US-PATENT-4,519,545				US-PATENT-APPL-SN-414237						US-PATENT-4,528,386													
N85-29284*	c 37		NASA-CASE-MS-C-20148-1				US-PATENT-CLASS-356-351						N85-33433*	c 34	NASA-CASE-LEW-14039-1											
			US-PATENT-APPL-SN-636465				US-PATENT-CLASS-356-358								US-PATENT-APPL-SN-580419											
			US-PATENT-CLASS-251-325				US-PATENT-CLASS-73-657								US-PATENT-CLASS-415-115											
			US-PATENT-CLASS-251-349				US-PATENT-4,512,661								US-PATENT-CLASS-416-97A											
			US-PATENT-CLASS-251-353		N85-30305*	c 36	NASA-CASE-NPO-15980-1								US-PATENT-4,529,358											
			US-PATENT-CLASS-277-135				US-PATENT-APPL-SN-385220								N85-33489*	c 37	NASA-CASE-LEW-13914-1									
			US-PATENT-CLASS-277-80				US-PATENT-CLASS-357-17										US-PATENT-APPL-SN-537615									
			US-PATENT-4,523,741				US-PATENT-CLASS-357-40										US-PATENT-CLASS-315-3.5									
N85-29285*	c 37		NASA-CASE-LAR-13009-1				US-PATENT-CLASS-372-38										US-PATENT-CLASS-315-5.38									
			US-PATENT-APPL-SN-495380				US-PATENT-CLASS-372-46										US-PATENT-CLASS-445-35									
			US-PATENT-CLASS-403-28				US-PATENT-CLASS-372-50										US-PATENT-4,527,092									
			US-PATENT-CLASS-403-408				US-PATENT-4,513,423										N85-33490*	c 37	NASA-CASE-LEW-13506-1							
			US-PATENT-CLASS-411-368				NASA-CASE-LEW-13717-1											US-PATENT-APPL-SN-596960								
			US-PATENT-CLASS-411-378				US-PATENT-APPL-SN-463456											US-PATENT-CLASS-384-101								
			US-PATENT-CLASS-411-426				US-PATENT-CLASS-310-77											US-PATENT-CLASS-384-99								
			US-PATENT-CLASS-411-501				US-PATENT-CLASS-310-93											US-PATENT-4,527,910								
			US-PATENT-CLASS-411-531				US-PATENT-CLASS-318-611											N85-33701*	c 60	NASA-CASE-MFS-25319-1						
			US-PATENT-4,512,699				US-PATENT-CLASS-335-100												US-PATENT-APPL-SN-437917							
N85-29286*	c 37		NASA-CASE-LAR-13040-1				US-PATENT-4,517,505												US-PATENT-CLASS-364-723							
			US-PATENT-APPL-SN-547176				NASA-CASE-MS-C-20080-1												US-PATENT-CLASS-364-853							
			US-PATENT-CLASS-219-201				US-PATENT-APPL-SN-393584												US-PATENT-4,528,639							
			US-PATENT-CLASS-219-221				US-PATENT-CLASS-403-15												N85-33826*	c 76	NASA-CASE-MS-C-20036-1					
			US-PATENT-CLASS-219-285				US-PATENT-CLASS-403-16													US-PATENT-APPL-SN-569372						
			US-PATENT-CLASS-414-217				US-PATENT-CLASS-403-322													US-PATENT-CLASS-204-192C						
			US-PATENT-CLASS-73-863.11				US-PATENT-CLASS-89-1.57													US-PATENT-CLASS-204-192P						
			US-PATENT-CLASS-73-864.81				US-PATENT-4,512,678													US-PATENT-CLASS-350-342						
			US-PATENT-4,516,435				NASA-CASE-LAR-12738-2													US-PATENT-CLASS-428-432						
N85-29693*	c 71		NASA-CASE-NPO-16147-1-CU				US-PATENT-APPL-SN-539230													US-PATENT-CLASS-428-698						
			US-PATENT-APPL-SN-559988				US-PATENT-CLASS-244-158-A													US-PATENT-CLASS-428-913						
			US-PATENT-CLASS-73-505				US-PATENT-CLASS-411-103													US-PATENT-4,522,469						
			US-PATENT-4,520,656				US-PATENT-CLASS-411-108													N85-34280*	c 27	NASA-CASE-ARC-11522-2				
N85-29749*	c 74		NASA-CASE-NPO-15464-1				US-PATENT-CLASS-52-127.7														US-PATENT-APPL-SN-641143					
			US-PATENT-APPL-SN-342828				US-PATENT-CLASS-52-506														US-PATENT-CLASS-528-168					
			US-PATENT-CLASS-156-166				US-PATENT-CLASS-52-745														US-PATENT-CLASS-528-229					
			US-PATENT-CLASS-350-320				US-PATENT-4,520,601														US-PATENT-CLASS-528-352					
			US-PATENT-CLASS-350-96.15				NASA-CASE-LAR-12864-1														US-PATENT-CLASS-528-353					
			US-PATENT-4,523,810				US-PATENT-APPL-SN-387646														US-PATENT-4,536,565					
N85-29750*	c 74		NASA-CASE-MS-C-18417-1				US-PATENT-CLASS-403-102														N85-34281*	c 27	NASA-CASE-ARC-11424-1			
			US-PATENT-APPL-SN-523559				US-PATENT-CLASS-403-322															US-PATENT-APPL-SN-598777				
			US-PATENT-CLASS-350-312				US-PATENT-CLASS-403-348															US-PATENT-CLASS-428-260				
			US-PATENT-CLASS-350-319				US-PATENT-4,518,277															US-PATENT-CLASS-428-408				
			US-PATENT-CLASS-350-321				NASA-CASE-NPO-15419-2															US-PATENT-CLASS-428-413				
			US-PATENT-CLASS-52-171				US-PATENT-APPL-SN-259208															US-PATENT-CLASS-525-107				
			US-PATENT-4,521,077				US-PATENT-APPL-SN-542557															US-PATENT-CLASS-525-113				
N85-29800*	c 76		NASA-CASE-NPO-15772-1				US-PATENT-CLASS-126-DIG.1															US-PATENT-CLASS-525-119				
			US-PATENT-APPL-SN-392944				US-PATENT-CLASS-126-400															US-PATENT-CLASS-525-186				
			US-PATENT-CLASS-156-623Q				US-PATENT-CLASS-126-415															US-PATENT-CLASS-525-229				
			US-PATENT-CLASS-23-295R				US-PATENT-CLASS-126-419															US-PATENT-CLASS-528-113				
			US-PATENT-4,512,846				US-PATENT-CLASS-126-900															US-PATENT-CLASS-528-117				
N85-29947*	c 05		NASA-CASE-ARC-11444-1				US-PATENT-4,512,332															US-PATENT-CLASS-528-407				
			US-PATENT-APPL-SN-489675				NASA-CASE-NPO-16155-1															US-PATENT-CLASS-528-94				
			US-PATENT-CLASS-416-145				US-PATENT-APPL-SN-578390															US-PATENT-CLASS-528-92				
			US-PATENT-CLASS-416-23				US-PATENT-CLASS-136-255															US-PATENT-4,537,834				
			US-PATENT-CLASS-416-500				US-PATENT-CLASS-136-256															N85-34282*	c 27	NASA-CASE-LAR-13226-1		
			US-PATENT-4,514,143				US-PATENT-CLASS-136-261																US-PATENT-APPL-SN-548583			
N85-29991*	c 18		NASA-CASE-MFS-25837-1				US-PATENT-CLASS-357-30																US-PATENT-CLASS-523-454			
			US-PATENT-APPL-SN-401282				US-PATENT-4,524,237																US-PATENT-CLASS-523-458			
			US-PATENT-CLASS-244-118.1				NASA-CASE-LAR-13028-1																US-PATENT-CLASS-528-106			
			US-PATENT-CLASS-244-158R				US-PATENT-APPL-SN-582492																US-PATENT-CLASS-528-229			
			US-PATENT-CLASS-248-503				US-PATENT-CLASS-128-660																US-PATENT-CLASS-528-407			
			US-PATENT-CLASS-248-555				US-PATENT-CLASS-128-736																US-PATENT-CLASS-528-92			
			US-PATENT-CLASS-403-143				US-PATENT-CLASS-374-117																US-PATENT-4,510,277			
			US-PATENT-CLASS-403-56				US-PATENT-CLASS-374-160																N85-34327*	c 32	NASA-CASE-NPO-15704-1	
			US-PATENT-CLASS-403-76				US-PATENT-4,513,750																	US-PATENT-APPL-SN-359382		
			US-PATENT-CLASS-403-90				NASA-CASE-NPO-15559-1																	US-PATENT-CLASS-343-17.2-PC		
			US-PATENT-CLASS-410-79				US-PATENT-APPL-SN-379601																	US-PATENT-CLASS-343-5-CM		
			US-PATENT-CLASS-410-90				US-PATENT-CLASS-181-0.5																	US-PATENT-CLASS-343-5-W		
			US-PATENT-4,508,296				US-PATENT-CLASS-209-422																	US-PATENT-4,509,048		
N85-30027*	c 24		NASA-CASE-LEW-13828-1				US-PATENT-CLASS-209-638																	N85-34333*	c 33	NASA-CASE-NPO-15696-1
			US-PATENT-APPL-SN-560035				US-PATENT-4,523,682																		US-PATENT-APPL-SN-387647	
			US-PATENT-CLASS-219-76.14				NASA-CASE-NPO-15813-1																		US-PATENT-CLASS-364-571	
			US-PATENT-CLASS-427-178				US-PATENT-AP																			

				US-PATENT-APPL-SN-563890				US-PATENT-APPL-SN-633179				US-PATENT-CLASS-357-59
				US-PATENT-CLASS-324-65-P				US-PATENT-CLASS-73-3				US-PATENT-4,531,143
				US-PATENT-CLASS-73-75				US-PATENT-CLASS-73-861.07		N86-19580*	c 35	NASA-CASE-GSC-12795-1
				US-PATENT-4,532,797				US-PATENT-4,538,446				US-PATENT-APPL-SN-462508
N85-34374*	c 35			NASA-CASE-ARC-11503-1		N86-19304*	c 04	NASA-CASE-KSC-11155-1				US-PATENT-CLASS-374-115
				US-PATENT-APPL-SN-582643				US-PATENT-APPL-SN-425201				US-PATENT-CLASS-374-120
				US-PATENT-CLASS-250-374				US-PATENT-CLASS-343-6-8-R				US-PATENT-CLASS-374-163
				US-PATENT-CLASS-250-379				US-PATENT-4,540,986				US-PATENT-4,556,327
				US-PATENT-4,538,066		N86-19310*	c 05	NASA-CASE-LAR-13155-1		N86-19581*	c 35	NASA-CASE-MSC-20250-1
N85-34375*	c 35			NASA-CASE-LAR-13243-1				US-PATENT-APPL-SN-469371				US-PATENT-APPL-SN-491113
				US-PATENT-APPL-SN-590923				US-PATENT-CLASS-244-158-A				US-PATENT-CLASS-73-862.01
				US-PATENT-CLASS-73-831				US-PATENT-CLASS-244-158-R				US-PATENT-CLASS-73-862.54
				US-PATENT-CLASS-73-856				US-PATENT-CLASS-244-172				US-PATENT-4,557,149
				US-PATENT-4,535,636		N86-19376*	c 23	US-PATENT-4,557,444		N86-19603*	c 37	NASA-CASE-MFS-25949-1
N85-34401*	c 37			NASA-CASE-MFS-25907-1				NASA-CASE-ARC-11428-1				US-PATENT-APPL-SN-538063
				US-PATENT-APPL-SN-510137				US-PATENT-APPL-SN-499126				US-PATENT-CLASS-414-730
				US-PATENT-CLASS-244-118.1				US-PATENT-CLASS-260-927-N				US-PATENT-CLASS-901-31
				US-PATENT-CLASS-244-158R				US-PATENT-CLASS-428-410				US-PATENT-CLASS-901-50
				US-PATENT-CLASS-248-550				US-PATENT-CLASS-528-310				US-PATENT-4,545,723
				US-PATENT-CLASS-267-150				US-PATENT-CLASS-548-413		N86-19604*	c 37	NASA-CASE-NPO-15960-1
				US-PATENT-CLASS-267-8R				US-PATENT-CLASS-564-113				US-PATENT-APPL-SN-527613
				US-PATENT-CLASS-410-156				US-PATENT-4,550,177				US-PATENT-CLASS-337-140
				US-PATENT-4,536,114		N86-19380*	c 24	NASA-CASE-ARC-11427-1				US-PATENT-CLASS-60-527
N85-34403*	c 37			NASA-CASE-MSC-20127-2				US-PATENT-APPL-SN-493865				US-PATENT-CLASS-60-528
				US-PATENT-APPL-SN-646044				US-PATENT-CLASS-523-433				US-PATENT-4,553,393
				US-PATENT-CLASS-137-116.3				US-PATENT-CLASS-523-445		N86-19605*	c 37	NASA-CASE-NPO-16038-1
				US-PATENT-CLASS-137-99				US-PATENT-CLASS-523-66468				US-PATENT-APPL-SN-469864
				US-PATENT-4,509,548				US-PATENT-CLASS-525-423				US-PATENT-CLASS-16-294
N85-34441*	c 44			NASA-CASE-LEW-14077-1				US-PATENT-CLASS-525-527				US-PATENT-CLASS-403-113
				US-PATENT-APPL-SN-580573				US-PATENT-CLASS-528-102				US-PATENT-CLASS-403-120
				US-PATENT-CLASS-136-253				US-PATENT-CLASS-528-103				US-PATENT-4,558,967
				US-PATENT-4,528,417		N86-19413*	c 25	US-PATENT-4,550,129		N86-19606*	c 37	NASA-CASE-LEW-13670-1
N85-34629*	c 74			NASA-CASE-NPO-15865-1				NASA-CASE-MSC-20622-1				US-PATENT-APPL-SN-603374
				US-PATENT-APPL-SN-425202				US-PATENT-APPL-SN-571616				US-PATENT-CLASS-384-103
				US-PATENT-CLASS-343-13-R				US-PATENT-CLASS-374-46				US-PATENT-CLASS-384-106
				US-PATENT-CLASS-356-5				US-PATENT-CLASS-374-8				US-PATENT-4,552,466
				US-PATENT-4,533,242				US-PATENT-CLASS-422-78		N86-19711*	c 43	NASA-CASE-NPO-15939-1
N85-34722*	c 85			NASA-CASE-NPO-15949-1				US-PATENT-CLASS-436-155				US-PATENT-APPL-SN-465365
				US-PATENT-APPL-SN-457990				US-PATENT-CLASS-73-7				US-PATENT-CLASS-343-5-CD
				US-PATENT-CLASS-414-288				US-PATENT-4,561,784				US-PATENT-CLASS-343-5-CM
				US-PATENT-CLASS-414-328		N86-19455*	c 27	NASA-CASE-ARC-11405-2				US-PATENT-CLASS-343-5-VQ
				US-PATENT-CLASS-414-373				US-PATENT-APPL-SN-514117				US-PATENT-CLASS-367-88
				US-PATENT-CLASS-414-786				US-PATENT-CLASS-260-245.75				US-PATENT-4,551,724
				US-PATENT-4,537,554				US-PATENT-CLASS-260-245.9		N86-19721*	c 44	NASA-CASE-LEW-14028-1
N85-35194*	c 07			NASA-CASE-LAR-13019-1				US-PATENT-CLASS-528-327				US-PATENT-APPL-SN-642310
				US-PATENT-APPL-SN-576308				US-PATENT-4,522,755				US-PATENT-CLASS-429-109
				US-PATENT-CLASS-244-199		N86-19456*	c 27	NASA-CASE-LAR-13135-1				US-PATENT-CLASS-429-15
				US-PATENT-CLASS-244-55				US-PATENT-APPL-SN-649328				US-PATENT-CLASS-429-19
				US-PATENT-4,533,101				US-PATENT-CLASS-525-432				US-PATENT-CLASS-429-51
N85-35195*	c 07			NASA-CASE-LEW-13562-2				US-PATENT-CLASS-525-436				US-PATENT-4,543,302
				US-PATENT-APPL-SN-500651				US-PATENT-CLASS-528-179		N86-19885* #	c 52	NAS 1.71:GSC-12944-1
				US-PATENT-CLASS-239-402.5				US-PATENT-CLASS-528-182				NASA-CASE-GSC-12944-1
				US-PATENT-CLASS-60-39.23				US-PATENT-CLASS-528-185				US-PATENT-APPL-SN-793006
				US-PATENT-CLASS-60-748				US-PATENT-CLASS-528-352		N86-20124*	c 74	NASA-CASE-MFS-25942-1
				US-PATENT-4,534,166				US-PATENT-CLASS-528-353				US-PATENT-APPL-SN-571613
N85-35200*	c 08			NASA-CASE-LAR-13076-1				US-PATENT-4,552,931				US-PATENT-CLASS-378-43
				US-PATENT-APPL-SN-532342		N86-19457*	c 27	NASA-CASE-LEW-13864-1				US-PATENT-CLASS-378-85
				US-PATENT-CLASS-244-113				US-PATENT-APPL-SN-434087				US-PATENT-4,562,583
				US-PATENT-CLASS-244-139				US-PATENT-CLASS-528-229		N86-20125*	c 74	NASA-CASE-ARC-11502-1
				US-PATENT-CLASS-244-75-R				US-PATENT-CLASS-528-322				US-PATENT-APPL-SN-594134
				US-PATENT-4,538,778				US-PATENT-CLASS-528-342				US-PATENT-CLASS-350-276-R
N85-35227*	c 23			NASA-CASE-NPO-16203-1				US-PATENT-CLASS-528-345				US-PATENT-CLASS-350-319
				US-PATENT-APPL-SN-493179				US-PATENT-4,560,742				US-PATENT-CLASS-350-448
				US-PATENT-CLASS-435-160		N86-19458*	c 27	NASA-CASE-LEW-14072-1				US-PATENT-CLASS-350-537
				US-PATENT-CLASS-435-842				US-PATENT-APPL-SN-649330				US-PATENT-CLASS-350-580
				US-PATENT-4,539,293				US-PATENT-CLASS-204-192-C				US-PATENT-4,542,963
N85-35233*	c 24			NASA-CASE-LEW-14057-1				US-PATENT-CLASS-204-192-D		N86-20126*	c 74	NASA-CASE-MSC-20418-1
				US-PATENT-APPL-SN-375784				US-PATENT-CLASS-204-192-R				US-PATENT-APPL-SN-438446
				US-PATENT-APPL-SN-523297				US-PATENT-CLASS-204-298				US-PATENT-CLASS-378-58
				US-PATENT-APPL-SN-640712				US-PATENT-CLASS-427-248.1				US-PATENT-CLASS-378-59
				US-PATENT-CLASS-428-633				US-PATENT-CLASS-427-38				US-PATENT-4,542,520
				US-PATENT-CLASS-428-656				US-PATENT-CLASS-428-446		N86-20150*	c 76	NASA-CASE-GSC-12816-1
				US-PATENT-CLASS-428-678				US-PATENT-CLASS-428-473.5				US-PATENT-APPL-SN-507625
				US-PATENT-CLASS-428-679				US-PATENT-CLASS-428-702				US-PATENT-CLASS-136-255
				US-PATENT-CLASS-428-680				US-PATENT-4,560,577				US-PATENT-CLASS-136-262
				US-PATENT-CLASS-428-681		N86-19479*	c 31	NASA-CASE-LAR-13098-1				US-PATENT-CLASS-29-572
				US-PATENT-CLASS-428-682				US-PATENT-APPL-SN-530339				US-PATENT-CLASS-357-15
				US-PATENT-4,485,151				US-PATENT-CLASS-16-242				US-PATENT-CLASS-357-30
				US-PATENT-4,535,033				US-PATENT-CLASS-16-390				US-PATENT-4,543,442
N85-35253*	c 25			NASA-CASE-NPO-15924-1				US-PATENT-CLASS-403-171		N86-20389*	c 07	NASA-CASE-LEW-13142-2
				US-PATENT-APPL-SN-526768				US-PATENT-CLASS-403-64				US-PATENT-APPL-SN-413101
				US-PATENT-CLASS-201-17				US-PATENT-CLASS-52-632				US-PATENT-CLASS-60-39.02
				US-PATENT-CLASS-44-1-SR				US-PATENT-CLASS-52-637				US-PATENT-CLASS-60-39.07
				US-PATENT-4,511,362				US-PATENT-CLASS-52-646				US-PATENT-CLASS-60-736
N85-35267*	c 26			NASA-CASE-LEW-13923-1				US-PATENT-CLASS-52-648				US-PATENT-4,550,561
				US-PATENT-APPL-SN-571617				US-PATENT-4,557,097		N86-20469*	c 18	NASA-CASE-MFS-25429-1
				US-PATENT-CLASS-427-191		N86-19515*	c 33	NASA-CASE-GSC-12555-1				US-PATENT-APPL-SN-596959
				US-PATENT-CLASS-427-228				US-PATENT-APPL-SN-153240				US-PATENT-CLASS-124-56
				US-PATENT-CLASS-427-294				US-PATENT-CLASS-331-116-FE				US-PATENT-CLASS-244-158-R
				US-PATENT-CLASS-427-376.2				US-PATENT-CLASS-331-117-FE				US-PATENT-CLASS-403-328
				US-PATENT-CLASS-427-380				US-PATENT-4,553,110				US-PATENT-4,554,905
				US-PATENT-CLASS-427-397.7		N86-19516*	c 33	NASA-CASE-NPO-16112-1		N86-20560*	c 27	NASA-CASE-ARC-11429-1-CU
				US-PATENT-CLASS-428-698				US-PATENT-APPL-SN-542232				US-PATENT-APPL-SN-553339
				US-PATENT-CLASS-428-704				US-PATENT-CLASS-357-23.6				US-PATENT-CLASS-524-548
				US-PATENT-4,535,035				US-PATENT-CLASS-357-30				US-PATENT-CLASS-525-186
N86-12547*	c 34			NASA-CASE-LAR-13220-1				US-PATENT-CLASS-357-58				US-PATENT-CLASS-526-262

		US-PATENT-CLASS-526-265				NASA-CASE-NPO-16233-1				US-PATENT-CLASS-208-11
		US-PATENT-4.526.925				US-PATENT-APPL-SN-737018				US-PATENT-CLASS-48-197-R
N86-20561*	c 27	NASA-CASE-LAR-13384-1	N86-20841*	c 39	NASA-CASE-MFS-25910-1					US-PATENT-CLASS-8-DIG.9
		US-PATENT-APPL-SN-663840			US-PATENT-APPL-SN-548582					US-PATENT-4.582.590
		US-PATENT-CLASS-156-307			US-PATENT-CLASS-73-150-A		N86-25752*	c 35	NASA-CASE-MFS-28030-1	US-PATENT-APPL-SN-719799
		US-PATENT-CLASS-156-309.9			US-PATENT-CLASS-73-827					US-PATENT-CLASS-73-861.58
		US-PATENT-CLASS-156-331.5			US-PATENT-4.548.083					US-PATENT-4.572.004
		US-PATENT-CLASS-256-308.2	N86-21154*	c 60	NASA-CASE-LAR-12968-1		N86-25753*	c 35	NASA-CASE-NPO-16271-1	US-PATENT-APPL-SN-556514
		US-PATENT-CLASS-427-385.5			US-PATENT-APPL-SN-523560					US-PATENT-CLASS-356-311
		US-PATENT-CLASS-427-388.1			US-PATENT-CLASS-364-728					US-PATENT-CLASS-356-318
		US-PATENT-CLASS-428-458			US-PATENT-4.545.025					US-PATENT-4.585.344
		US-PATENT-CLASS-428-473.5	N86-21276*	c 71	NASA-CASE-LAR-13153-1		N86-25789*	c 37	NASA-CASE-LAR-13117-1	US-PATENT-APPL-SN-556512
N86-20647*	c 32	US-PATENT-4.543.295			US-PATENT-APPL-SN-590921					US-PATENT-CLASS-244-159
		NASA-CASE-MFS-25750-1			US-PATENT-CLASS-72-324					US-PATENT-CLASS-244-173
		US-PATENT-APPL-SN-530185			US-PATENT-CLASS-73-1-DV					US-PATENT-CLASS-343-881
		US-PATENT-CLASS-250-225			US-PATENT-4.558.585					US-PATENT-CLASS-343-882
		US-PATENT-CLASS-350-354	N86-21348*	c 74	NASA-CASE-MFS-25752-1					US-PATENT-CLASS-52-111
		US-PATENT-CLASS-358-168			US-PATENT-APPL-SN-473499					US-PATENT-CLASS-52-645
N86-20668*	c 33	US-PATENT-4.546.248			US-PATENT-CLASS-350-335		N86-25790*	c 37	NASA-CASE-LEW-14170-1	US-PATENT-CLASS-52-648
		NASA-CASE-GSC-12804-1			US-PATENT-CLASS-356-345					US-PATENT-4.578.920
		US-PATENT-APPL-SN-529803			US-PATENT-CLASS-356-4.5					US-PATENT-APPL-SN-672224
		US-PATENT-CLASS-331-1-A			US-PATENT-CLASS-358-105					US-PATENT-CLASS-227-27
		US-PATENT-CLASS-331-2			US-PATENT-CLASS-358-125					US-PATENT-CLASS-227-28
N86-20669*	c 33	US-PATENT-4.550.292			US-PATENT-CLASS-358-88					US-PATENT-4.580-791
		NASA-CASE-GSC-12899-1			US-PATENT-CLASS-364-822		N86-25791*	c 37	NASA-CASE-LAR-13169-1	US-PATENT-APPL-SN-606431
		US-PATENT-APPL-SN-613140			US-PATENT-CLASS-382-42					US-PATENT-CLASS-343-DIG.2
		US-PATENT-CLASS-191-12.2-R			US-PATENT-4.556.986					US-PATENT-CLASS-343-883
		US-PATENT-CLASS-242-107	N86-21582*	c 23	NASA-CASE-ARC-11402-3					US-PATENT-CLASS-52-110
		US-PATENT-CLASS-242-54-R			US-PATENT-APPL-SN-741405					US-PATENT-4.587.526
N86-20670*	c 33	US-PATENT-4.542.858			US-PATENT-CLASS-564-243					NASA-CASE-LEW-13822-1
		NASA-CASE-MFS-25868-1			US-PATENT-4.567.301		N86-25874*	c 44	US-PATENT-APPL-SN-625077	US-PATENT-CLASS-42-101
		US-PATENT-APPL-SN-638584			US-PATENT-4.568.733					US-PATENT-CLASS-429-27
		US-PATENT-CLASS-330-258	N86-21590*	c 24	NASA-CASE-ARC-11538-1SB					US-PATENT-CLASS-429-57
		US-PATENT-CLASS-330-261			US-PATENT-APPL-SN-719796					US-PATENT-4.584.249
		US-PATENT-CLASS-330-311			US-PATENT-CLASS-526-262		N86-26190*	c 74	NASA-CASE-GSC-12849-1	US-PATENT-APPL-SN-556481
		US-PATENT-4.551.687			US-PATENT-4.568.733					US-PATENT-CLASS-250-228
N86-20671*	c 33	NASA-CASE-LEW-13773-2			US-PATENT-4.565.886					US-PATENT-CLASS-356-236
		US-PATENT-APPL-SN-638541	N86-21675*	c 27	NASA-CASE-LAR-12931-2					US-PATENT-CLASS-356-244
		US-PATENT-CLASS-244-134-D			US-PATENT-APPL-SN-527914					US-PATENT-CLASS-356-446
		US-PATENT-CLASS-310-324			US-PATENT-CLASS-260-544-D					US-PATENT-CLASS-56-73
		US-PATENT-CLASS-39-25.35			US-PATENT-CLASS-556-436					US-PATENT-4.583.860
		US-PATENT-4.545.553			US-PATENT-CLASS-585-24		N86-26352*	c 16	NASA-CASE-MFS-25966-1	US-PATENT-APPL-SN-643522
N86-20672*	c 33	NASA-CASE-LEW-13922-1			US-PATENT-4.565.886					US-PATENT-CLASS-244-161
		US-PATENT-APPL-SN-537614	N86-21718*	c 31	NASA-CASE-MFS-25905-2					US-PATENT-4.582.277
		US-PATENT-CLASS-307-264			US-PATENT-APPL-SN-601130		N86-26368*	c 20	NASA-CASE-MFS-25946-1	US-PATENT-APPL-SN-561432
		US-PATENT-CLASS-307-270			US-PATENT-CLASS-65-1					US-PATENT-CLASS-244-158-R
		US-PATENT-CLASS-307-566			US-PATENT-CLASS-65-11.1					US-PATENT-CLASS-244-169
		US-PATENT-CLASS-307-570			US-PATENT-CLASS-65-12					US-PATENT-CLASS-60-203.1
		US-PATENT-CLASS-307-572			US-PATENT-CLASS-65-2					US-PATENT-CLASS-60-39.465
		US-PATENT-4.547.686			US-PATENT-4.565.557		N86-26595*	c 35	NASA-CASE-MSC-20653-1	US-PATENT-4.585.191
N86-20680* #	c 33	NAS 1.71:LEW-14127-1	N86-21742*	c 33	NASA-CASE-LEW-13981-2					US-PATENT-APPL-SN-659474
		NASA-CASE-LEW-14127-1			US-PATENT-APPL-SN-714051					US-PATENT-CLASS-73-863.21
		US-PATENT-APPL-SN-748536			US-PATENT-CLASS-315-3.5					US-PATENT-CLASS-73-863.31
N86-20681* #	c 33	NAS 1.71:NPO-16420-1			US-PATENT-CLASS-315-3.6					US-PATENT-CLASS-73-863.72
		NASA-CASE-NPO-16420-1			US-PATENT-CLASS-315-39.3					US-PATENT-CLASS-73-864.34
		US-PATENT-APPL-SN-727838			US-PATENT-CLASS-330-43		N86-26598* #	c 35	NAS 1.71:MFS-26002-1-CU	US-PATENT-4.584.887
N86-20750*	c 35	US-PATENT-4.544.025			US-PATENT-4.564.787					NASA-CASE-MFS-26002-1-CU
		NASA-CASE-MFS-25963-1	N86-21850*	c 37	NASA-CASE-MFS-25807-2					US-PATENT-APPL-SN-765991
		US-PATENT-APPL-SN-571614			US-PATENT-APPL-SN-685607		N86-27270*	c 04	NASA-CASE-NPO-16171-1CU	US-PATENT-APPL-SN-551536
		US-PATENT-CLASS-165-30			US-PATENT-CLASS-219-124.34					US-PATENT-CLASS-343-357
		US-PATENT-CLASS-165-61			US-PATENT-CLASS-318-577					US-PATENT-CLASS-343-418
		US-PATENT-CLASS-165-65			US-PATENT-CLASS-358-101					US-PATENT-4.578.678
		US-PATENT-CLASS-219-390			US-PATENT-CLASS-901-42		N86-27280*	c 06	NASA-CASE-LAR-12518-1	US-PATENT-APPL-SN-578388
		US-PATENT-CLASS-219-395			US-PATENT-CLASS-901-47					US-PATENT-CLASS-244-181
		US-PATENT-CLASS-219-396			US-PATENT-4.567.348					US-PATENT-CLASS-340-968
		US-PATENT-CLASS-432-18	N86-22112*	c 54	NASA-CASE-LAR-12259-2					US-PATENT-CLASS-364-433
		US-PATENT-4.544.025			US-PATENT-APPL-SN-280152					US-PATENT-CLASS-364-435
N86-20751*	c 35	US-PATENT-4.566.447			US-PATENT-CLASS-128-80-E					US-PATENT-4.586.140
		NASA-CASE-ARC-11422-1	N86-22459* #	c 89	NAS 1.71:MFS-28013-1					NASA-CASE-ARC-11372-1
		US-PATENT-APPL-SN-523991			NASA-CASE-MFS-28013-1		N86-27288*	c 08	US-PATENT-APPL-SN-415878	US-PATENT-CLASS-200-157
		US-PATENT-CLASS-211-126			US-PATENT-APPL-SN-765979					US-PATENT-CLASS-244-234
		US-PATENT-CLASS-211-74			NAS 1.71:NPO-16464-1CU					US-PATENT-CLASS-250-211K
N86-20752*	c 35	US-PATENT-4.544.068			NASA-CASE-NPO-16464-1CU					US-PATENT-CLASS-318-584
		NASA-CASE-NPO-16142-1-CU			US-PATENT-APPL-SN-815099					US-PATENT-CLASS-318-640
		US-PATENT-APPL-SN-561433			NASA-CASE-MSC-20676-1					US-PATENT-4.584.510
		US-PATENT-CLASS-73-505	N86-24729*	c 18	US-PATENT-APPL-SN-587764		N86-27431*	c 25	NASA-CASE-MSC-20206-1	US-PATENT-APPL-SN-478129
		US-PATENT-4.549.435			US-PATENT-CLASS-244-159					US-PATENT-CLASS-141-198
N86-20756* #	c 35	NAS 1.71:MSC-20783-1			US-PATENT-4.579.302					US-PATENT-CLASS-200-61.05
		NASA-CASE-MSC-20783-1			NAS 1.71:ARC-13292-1					US-PATENT-CLASS-340-605
		US-PATENT-APPL-SN-738931			NASA-CASE-LAR-13292-1					US-PATENT-4.591.838
N86-20788*	c 37	US-PATENT-4.579.302			US-PATENT-APPL-SN-834978					
		NASA-CASE-MFS-25842-2	N86-24841* #	c 27	NAS 1.71:NPO-16584-1-CU					
		US-PATENT-APPL-SN-692875			NASA-CASE-NPO-16584-1-CU					
		US-PATENT-CLASS-277-53			US-PATENT-APPL-SN-802769					
		US-PATENT-CLASS-415-174			NASA-CASE-ARC-11421-3					
		US-PATENT-4.545.586			US-PATENT-APPL-SN-771538					
N86-20789*	c 37	NASA-CASE-MFS-25906-1			US-PATENT-CLASS-428-473.5					
		US-PATENT-APPL-SN-537757			US-PATENT-CLASS-428-474.4					
		US-PATENT-CLASS-212-230			US-PATENT-CLASS-428-477.7					
		US-PATENT-CLASS-414-4			US-PATENT-CLASS-528-170					
		US-PATENT-CLASS-414-718			US-PATENT-CLASS-528-220					
		US-PATENT-CLASS-414-753			US-PATENT-CLASS-528-321					
		US-PATENT-CLASS-901-25			US-PATENT-CLASS-528-322					
		US-PATENT-CLASS-901-31			US-PATENT-4.579-782					
		US-PATENT-4.547.121	N86-25416*	c 24	NASA-CASE-NPO-16392-1					
N86-20797* #	c 37	NAS 1.71:ARC-11349-1			US-PATENT-APPL-SN-633363					
		NASA-CASE-ARC-11349-1								
		US-PATENT-APPL-SN-746160								
N86-20801* #	c 37	NAS 1.71:NPO-16233-1								

N86-27450

ACCESSION NUMBER INDEX

N86-27450*	c 27	NASA-CASE-LAR-13316-1 US-PATENT-APPL-SN-613139 US-PATENT-CLASS-260-544P US-PATENT-CLASS-525-534 US-PATENT-CLASS-525-535 US-PATENT-CLASS-526-285 US-PATENT-CLASS-528-171 US-PATENT-CLASS-528-174 US-PATENT-CLASS-528-176 US-PATENT-4.587.312	N86-29039*	c 27	NASA-CASE-LAR-13353-1 US-PATENT-APPL-SN-643524 US-PATENT-CLASS-264-204 US-PATENT-CLASS-264-216 US-PATENT-CLASS-264-236 US-PATENT-CLASS-264-347 US-PATENT-CLASS-528-183 US-PATENT-CLASS-528-222 US-PATENT-CLASS-528-341 US-PATENT-4.595.548	US-PATENT-CLASS-219-1211E US-PATENT-CLASS-219-1211Y US-PATENT-CLASS-264-5 US-PATENT-CLASS-425-6 US-PATENT-CLASS-65-142 US-PATENT-CLASS-65-21.2 US-PATENT-CLASS-73-505 US-PATENT-4.553.917		
N86-27451*	c 27	NASA-CASE-ARC-11427-2 US-PATENT-APPL-SN-765980 US-PATENT-CLASS-523-434 US-PATENT-CLASS-523-445 US-PATENT-CLASS-523-461 US-PATENT-CLASS-525-108 US-PATENT-CLASS-525-115 US-PATENT-CLASS-525-119 US-PATENT-CLASS-525-122 US-PATENT-4.588.778	N86-29055*	c 31	NASA-CASE-MFS-25825-1 US-PATENT-APPL-SN-657309 US-PATENT-CLASS-318-605 US-PATENT-CLASS-318-636 US-PATENT-CLASS-318-661 US-PATENT-CLASS-340-347CC US-PATENT-CLASS-340-347SY US-PATENT-4.594.540	N86-32568* #	c 27	NASA-CASE-ARC-11512-2 US-PATENT-APPL-SN-641153 US-PATENT-CLASS-528-336 US-PATENT-CLASS-528-337 US-PATENT-CLASS-528-340 US-PATENT-CLASS-528-347 US-PATENT-CLASS-564-15 US-PATENT-CLASS-568-14 US-PATENT-4.602.081
N86-27513*	c 32	NASA-CASE-KSC-11285-1 US-PATENT-APPL-SN-655601 US-PATENT-CLASS-179-188C US-PATENT-CLASS-340-347DD US-PATENT-CLASS-365-768 US-PATENT-4.588.986	N86-29174*	c 35	NASA-CASE-LAR-13254-1CU US-PATENT-APPL-SN-668432 US-PATENT-CLASS-261-78A US-PATENT-CLASS-55-255 US-PATENT-CLASS-55-259 US-PATENT-CLASS-55-521 US-PATENT-CLASS-55-528 US-PATENT-4.595.399	N86-32569*	c 27	NASA-CASE-LEW-14072-2 US-PATENT-APPL-SN-761235 US-PATENT-CLASS-204-192C US-PATENT-CLASS-204-192D US-PATENT-CLASS-204-298 US-PATENT-4.604.181
N86-27593*	c 34	NASA-CASE-MSC-20812-1 US-PATENT-APPL-SN-616002 US-PATENT-CLASS-122-366 US-PATENT-CLASS-165-104.14 US-PATENT-CLASS-165-104.26 US-PATENT-CLASS-165-41 US-PATENT-4.583.587	N86-29204*	c 36	NAS 1.71:LAR-13256-1 NASA-CASE-LAR-13256-1 US-PATENT-APPL-SN-745973 US-PATENT-CLASS-372-79 US-PATENT-4.594.720	N86-32587*	c 31	NASA-CASE-LEW-14130-1 US-PATENT-APPL-SN-659475 US-PATENT-CLASS-204-192C US-PATENT-CLASS-204-192D US-PATENT-CLASS-204-298 US-PATENT-CLASS-313-106 US-PATENT-CLASS-313-107 US-PATENT-CLASS-315-5.38 US-PATENT-CLASS-427-39 US-PATENT-4.607.193
N86-27629*	c 37	NASA-CASE-ARC-11525-1 US-PATENT-APPL-SN-681041 US-PATENT-CLASS-318-48 US-PATENT-CLASS-318-632 US-PATENT-CLASS-318-663 US-PATENT-CLASS-318-8 US-PATENT-4.591.772	N86-29507* #	c 54	NASA-CASE-ARC-11534-1 US-PATENT-APPL-SN-642602 US-PATENT-CLASS-138-120 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-285-168 US-PATENT-CLASS-285-184 US-PATENT-CLASS-285-227 US-PATENT-CLASS-403-164 US-PATENT-4.598.428	N86-32589* #	c 31	NAS 1.71:MFS-28153-1 NASA-CASE-MFS-28153-1 US-PATENT-APPL-SN-875891
N86-27630*	c 37	NASA-CASE-LAR-13250-1 US-PATENT-APPL-SN-573162 US-PATENT-CLASS-403-312 US-PATENT-CLASS-403-388 US-PATENT-CLASS-403-408.1 US-PATENT-4.579.475	N86-29650* #	c 74	NASA-CASE-GSC-12911-1 US-PATENT-APPL-SN-606426 US-PATENT-CLASS-350-315 US-PATENT-CLASS-350-318 US-PATENT-CLASS-356-402 US-PATENT-CLASS-356-419 US-PATENT-4.599.001	N86-32624*	c 33	NASA-CASE-GSC-12958-1 US-PATENT-APPL-SN-727035 US-PATENT-CLASS-331-108D US-PATENT-CLASS-331-116R US-PATENT-CLASS-331-66 US-PATENT-CLASS-374-183 US-PATENT-4.603.306
N86-27706*	c 44	NASA-CASE-NPO-16236-1 US-PATENT-APPL-SN-582495 US-PATENT-CLASS-126-418 US-PATENT-CLASS-126-419 US-PATENT-CLASS-126-438 US-PATENT-4.586.487	N86-31726* #	c 27	NASA-CASE-ARC-11421-2 US-PATENT-APPL-SN-739760 US-PATENT-CLASS-428-473.5 US-PATENT-CLASS-528-170 US-PATENT-CLASS-528-220 US-PATENT-CLASS-528-321 US-PATENT-CLASS-528-322 US-PATENT-4.600.769	N86-32695* #	c 35	NASA-CASE-NPO-16479-ICU US-PATENT-APPL-SN-719794 US-PATENT-CLASS-73-502 US-PATENT-CLASS-73-521 US-PATENT-4.602.509
N86-28131*	c 24	NASA-CASE-ARC-11615-1SB US-PATENT-APPL-SN-706682 US-PATENT-CLASS-428-116 US-PATENT-CLASS-428-408 US-PATENT-CLASS-428-921 US-PATENT-CLASS-526-265 US-PATENT-4.598.007	N86-31727*	c 27	NASA-CASE-LAR-13351-1 US-PATENT-APPL-SN-643589 US-PATENT-CLASS-264-212 US-PATENT-CLASS-264-236 US-PATENT-CLASS-427-162 US-PATENT-CLASS-427-164 US-PATENT-CLASS-427-165 US-PATENT-CLASS-428-336 US-PATENT-CLASS-428-473.5 US-PATENT-4.603.061	N86-32696*	c 35	NASA-CASE-LAR-13294-1 US-PATENT-APPL-SN-706681 US-PATENT-CLASS-73-147 US-PATENT-CLASS-73-862.04 US-PATENT-CLASS-73-862.61 US-PATENT-4.604.903
N86-28618*	c 54	NASA-CASE-ARC-11616-1 US-PATENT-APPL-SN-684193 US-PATENT-CLASS-128-202.11 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-2-2.1R US-PATENT-CLASS-414-1 US-PATENT-CLASS-414-5 US-PATENT-CLASS-414-7 US-PATENT-CLASS-414-8 US-PATENT-4.593.415	N86-32266*	c 74	NASA-CASE-GSC-12761-1 US-PATENT-APPL-SN-406820 US-PATENT-CLASS-356-4.5 US-PATENT-CLASS-356-5 US-PATENT-4.600.299	N86-32697*	c 35	NAS 1.71:ARC-11510-1 NASA-CASE-ARC-11510-1 US-PATENT-APPL-SN-602049 US-PATENT-CLASS-356-28.5 US-PATENT-CLASS-356-72 US-PATENT-CLASS-356-73 US-PATENT-CLASS-434-4 US-PATENT-4.600.301
N86-28619*	c 54	NASA-CASE-ARC-11610-1 US-PATENT-APPL-SN-684190 US-PATENT-CLASS-138-120 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-2-2.1R US-PATENT-CLASS-285-168 US-PATENT-4.598.427	N86-32447*	c 09	NASA-CASE-ARC-11504-1 US-PATENT-APPL-SN-565481 US-PATENT-CLASS-356-73 US-PATENT-4.605.303	N86-32698*	c 35	NASA-CASE-MFS-25833-1 US-PATENT-APPL-SN-473827 US-PATENT-CLASS-324-226 US-PATENT-CLASS-324-238 US-PATENT-CLASS-324-240 US-PATENT-CLASS-324-262 US-PATENT-CLASS-373-37.5 US-PATENT-4.551.677
N86-28620*	c 54	NASA-CASE-ARC-11543-1 US-PATENT-APPL-SN-684192 US-PATENT-CLASS-138-120 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-285-168 US-PATENT-CLASS-414-7 US-PATENT-4.594.734	N86-32525*	c 23	NASA-CASE-ARC-11506-2 US-PATENT-APPL-SN-641142 US-PATENT-CLASS-528-108 US-PATENT-CLASS-528-124 US-PATENT-CLASS-528-337 US-PATENT-CLASS-528-352 US-PATENT-CLASS-528-399 US-PATENT-CLASS-528-406 US-PATENT-CLASS-528-407 US-PATENT-4.587.324	N86-32736* #	c 37	NASA-CASE-MFS-19796-1 US-PATENT-APPL-SN-770920 US-PATENT-CLASS-138-97 US-PATENT-CLASS-165-76 US-PATENT-CLASS-228-119 US-PATENT-CLASS-29-402.16 US-PATENT-4.605.155
N86-28732*	c 74	NASA-CASE-GSC-12825-1 US-PATENT-APPL-SN-698641 US-PATENT-CLASS-350-276R US-PATENT-CLASS-350-505 US-PATENT-CLASS-354-479 US-PATENT-CLASS-358-222 US-PATENT-4.598.981	N86-32550*	c 26	NASA-CASE-GSC-12880-1 US-PATENT-APPL-SN-590925 US-PATENT-CLASS-427-191 US-PATENT-CLASS-427-192 US-PATENT-CLASS-427-421 US-PATENT-CLASS-427-427 US-PATENT-4.552.784	N86-32737*	c 37	NASA-CASE-LAR-13081-1 US-PATENT-APPL-SN-760378 US-PATENT-CLASS-52-111 US-PATENT-CLASS-52-632 US-PATENT-CLASS-52-645 US-PATENT-CLASS-52-646 US-PATENT-4.604.844
N86-28760*	c 76	NASA-CASE-NPO-15904-1 US-PATENT-APPL-SN-465369 US-PATENT-CLASS-156-DIG.88 US-PATENT-CLASS-156-610 US-PATENT-CLASS-156-624 US-PATENT-4.596.626	N86-32551*	c 26	NASA-CASE-NPO-15658-1 US-PATENT-APPL-SN-451896	N86-32738*	c 37	NASA-CASE-MFS-28059-1 US-PATENT-APPL-SN-709255 US-PATENT-CLASS-417-475 US-PATENT-4.604.038
						N86-32875*	c 44	NASA-CASE-LEW-14177-1 US-PATENT-APPL-SN-669140 US-PATENT-CLASS-136-261 US-PATENT-CLASS-148-1.5 US-PATENT-CLASS-29-572 US-PATENT-CLASS-29-576B US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-91

N86-33127*	c 72	US-PATENT-4,608,452	US-PATENT-CLASS-29-580	US-PATENT-CLASS-305-36
		NASA-CASE-NPO-16372-1	US-PATENT-CLASS-29-591	US-PATENT-CLASS-305-51
		US-PATENT-APPL-SN-703847	US-PATENT-4,618,380	US-PATENT-CLASS-305-58PC
		US-PATENT-CLASS-250-336.1	NAS 1.71:NPO-16892-1-CU	US-PATENT-CLASS-305-58R
		US-PATENT-CLASS-250-338	NASA-CASE-NPO-16892-1-CU	US-PATENT-CLASS-474-220
N86-33138* #	c 74	US-PATENT-CLASS-250-340	US-PATENT-APPL-SN-921573	US-PATENT-4,626,046
		US-PATENT-4,600,840	NAS 1.71:MSC-20964-1	NASA-CASE-MSC-20857-1
		NAS 1.71:NPO-16869	NASA-CASE-MSC-20964-1	US-PATENT-APPL-SN-783886
		NASA-CASE-NPO-16869-1CU	US-PATENT-APPL-SN-878916	US-PATENT-CLASS-134-166C
		US-PATENT-APPL-SN-867986	NASA-CASE-MFS-26000-1	US-PATENT-CLASS-134-93
N87-10231* #	c 33	NAS 1.71:NPO-16784-1	US-PATENT-APPL-SN-571615	US-PATENT-CLASS-210-282
		NASA-CASE-NPO-16784-1	US-PATENT-CLASS-356-246	US-PATENT-4,635,663
		US-PATENT-APPL-SN-879757	US-PATENT-CLASS-372-61	NASA-CASE-MSC-20162-1
		NASA-CASE-NPO-16045-1	US-PATENT-4,614,428	US-PATENT-APPL-SN-764805
		US-PATENT-APPL-SN-641146	NASA-CASE-ARC-11429-4CU	US-PATENT-CLASS-135-903
N87-13313*	c 76	US-PATENT-CLASS-250-338	US-PATENT-APPL-SN-725686	US-PATENT-CLASS-160-23R
		US-PATENT-CLASS-250-370	US-PATENT-CLASS-525-282	US-PATENT-CLASS-160-265
		US-PATENT-CLASS-357-23.1	US-PATENT-4,618,652	US-PATENT-CLASS-244-121
		US-PATENT-CLASS-357-23.12	NAS 1.71:NPO-16632-1-CU	US-PATENT-CLASS-244-158R
		US-PATENT-CLASS-357-29	NASA-CASE-NPO-16632-1-CU	US-PATENT-CLASS-296-100
N87-14314*	c 05	US-PATENT-CLASS-357-30	US-PATENT-APPL-SN-890586	US-PATENT-4,637,447
		US-PATENT-CLASS-357-52	NAS 1.71:NPO-16932-1	NASA-CASE-MSC-20475-1
		US-PATENT-4,605,946	NASA-CASE-NPO-16932-1CU	US-PATENT-APPL-SN-725689
		NASA-CASE-LAR-13173-1	US-PATENT-APPL-SN-913433	US-PATENT-CLASS-192-46
		US-PATENT-APPL-SN-690274	NAS 1.71:MSC-20761-1	US-PATENT-CLASS-192-67R
N87-14314*	c 05	US-PATENT-CLASS-244-118.1	NASA-CASE-MSC-20761-1	US-PATENT-4,635,773
		US-PATENT-CLASS-244-137-A	US-PATENT-APPL-SN-913446	NASA-CASE-GSC-12957-1
		US-PATENT-CLASS-244-17.27	NASA-CASE-NPO-15813-2	US-PATENT-APPL-SN-800193
		US-PATENT-CLASS-248-638	US-PATENT-APPL-SN-706564	US-PATENT-CLASS-310-90.5
		US-PATENT-CLASS-89-1.54	US-PATENT-CLASS-148-174	US-PATENT-4,634,191
N87-14355*	c 09	US-PATENT-4,616,793	US-PATENT-CLASS-148-175	NASA-CASE-NPO-16526-1CU
		NASA-CASE-MFS-28057-1	US-PATENT-CLASS-29-575	US-PATENT-APPL-SN-809975
		US-PATENT-APPL-SN-729766	US-PATENT-CLASS-29-576-E	US-PATENT-CLASS-136-249
		US-PATENT-CLASS-350-319	US-PATENT-CLASS-29-576-J	US-PATENT-4,631,352
		US-PATENT-4,618,215	US-PATENT-CLASS-29-576-W	NASA-CASE-MFS-29134-1
N87-14373*	c 18	NASA-CASE-MSC-20635-1	US-PATENT-CLASS-29-578	US-PATENT-APPL-SN-783890
		US-PATENT-APPL-SN-588039	US-PATENT-CLASS-29-578	US-PATENT-CLASS-219-124.34
		US-PATENT-CLASS-16-294	US-PATENT-4,612,072	US-PATENT-CLASS-219-130.01
		US-PATENT-CLASS-16-370	NASA-CASE-LAR-13255-1	US-PATENT-4,633,060
		US-PATENT-CLASS-403-102	US-PATENT-APPL-SN-550681	NAS 1.71:MFS-28139-1
N87-14420*	c 20	US-PATENT-CLASS-403-119	US-PATENT-CLASS-244-130	NASA-CASE-MFS-28139-1
		US-PATENT-CLASS-403-146	US-PATENT-CLASS-244-200	US-PATENT-APPL-SN-911851
		US-PATENT-CLASS-403-163	US-PATENT-CLASS-244-204	NAS 1.71:MSC-20865-1
		US-PATENT-CLASS-403-85	US-PATENT-CLASS-244-35R	NASA-CASE-MSC-20865-1
		US-PATENT-4,615,637	US-PATENT-4,619,423	US-PATENT-APPL-SN-924472
N87-14420*	c 20	NASA-CASE-MFS-25589-1	NASA-CASE-LAR-13134-2	NAS 1.71:MFS-28161-1
		US-PATENT-APPL-SN-690273	US-PATENT-APPL-SN-846462	NASA-CASE-MFS-28161-1
		US-PATENT-CLASS-239-132.5	US-PATENT-CLASS-244-130	US-PATENT-APPL-SN-942159
		US-PATENT-CLASS-239-403	US-PATENT-CLASS-244-55	NAS 1.71:MSC-20907-1
		US-PATENT-CLASS-239-425	US-PATENT-4,629,147	NASA-CASE-MSC-20907-1
N87-14482*	c 26	US-PATENT-CLASS-60-258	NASA-CASE-LAR-13006-1	US-PATENT-APPL-SN-927992
		US-PATENT-CLASS-60-746	US-PATENT-APPL-SN-470113	NASA-CASE-LAR-13280-1
		US-PATENT-4,621,492	US-PATENT-CLASS-340-825.5	US-PATENT-APPL-SN-790556
		NASA-CASE-LEW-13834-1	US-PATENT-CLASS-340-870.18	US-PATENT-CLASS-244-76-R
		US-PATENT-APPL-SN-478131	US-PATENT-CLASS-371-63	US-PATENT-CLASS-340-967
N87-14515*	c 27	US-PATENT-CLASS-148-429	US-PATENT-CLASS-375-88	US-PATENT-4,648,569
		US-PATENT-CLASS-420-460	US-PATENT-4,631,538	NASA-CASE-MFS-28090-1
		US-PATENT-4,610,736	NASA-CASE-LEW-14037-1	US-PATENT-APPL-SN-805012
		NASA-CASE-LAR-13316-2	US-PATENT-APPL-SN-636463	US-PATENT-CLASS-65-13
		US-PATENT-APPL-SN-760791	US-PATENT-CLASS-219-275	US-PATENT-CLASS-65-134
N87-14516*	c 27	US-PATENT-CLASS-260-544-P	US-PATENT-CLASS-60-203.1	US-PATENT-CLASS-65-136
		US-PATENT-4,622,182	US-PATENT-4,608,821	US-PATENT-CLASS-65-2
		NASA-CASE-LAR-13318-1	NASA-CASE-LAR-13118-2	US-PATENT-4,654,065
		US-PATENT-APPL-SN-781813	US-PATENT-APPL-SN-760797	NASA-CASE-ARC-11511-2
		US-PATENT-CLASS-428-262	US-PATENT-CLASS-560-104	US-PATENT-APPL-SN-754352
N87-14559*	c 32	US-PATENT-CLASS-428-447	US-PATENT-4,638,083	US-PATENT-CLASS-528-220
		US-PATENT-CLASS-528-26	NASA-CASE-ARC-11429-3CU	US-PATENT-CLASS-528-229
		US-PATENT-4,624,888	US-PATENT-APPL-SN-725725	US-PATENT-CLASS-528-322
		NASA-CASE-LAR-13310-1	US-PATENT-CLASS-546-339	US-PATENT-CLASS-528-327
		US-PATENT-APPL-SN-709257	US-PATENT-CLASS-546-346	US-PATENT-CLASS-528-331
N87-14594*	c 33	US-PATENT-CLASS-356-5	US-PATENT-CLASS-546-350	US-PATENT-CLASS-528-362
		US-PATENT-CLASS-367-99	US-PATENT-4,626,593	US-PATENT-4,649,189
		US-PATENT-CLASS-73-597	NASA-CASE-ARC-11428-2	NASA-CASE-NPO-16393-1-CU
		US-PATENT-CLASS-73-615	US-PATENT-APPL-SN-760374	US-PATENT-APPL-SN-701486
		US-PATENT-4,624,142	US-PATENT-CLASS-428-421	US-PATENT-CLASS-62-384
N87-14669*	c 35	NASA-CASE-NPO-16299-1	US-PATENT-CLASS-428-473.5	US-PATENT-CLASS-62-48
		US-PATENT-APPL-SN-541526	US-PATENT-CLASS-428-500	US-PATENT-CLASS-62-514-R
		US-PATENT-CLASS-356-389	US-PATENT-CLASS-528-168	US-PATENT-4,641,499
		US-PATENT-4,623,255	US-PATENT-CLASS-528-321	NASA-CASE-LEW-13899-1
		NASA-CASE-LAR-13268-1	US-PATENT-CLASS-528-322	US-PATENT-APPL-SN-775968
N87-14670*	c 35	US-PATENT-APPL-SN-727034	US-PATENT-4,634,759	US-PATENT-CLASS-156-345
		US-PATENT-CLASS-356-28.5	NASA-CASE-ARC-11363-1	US-PATENT-CLASS-156-643
		US-PATENT-CLASS-356-301	US-PATENT-APPL-SN-500046	US-PATENT-CLASS-156-646
		US-PATENT-4,624,561	US-PATENT-CLASS-52-126.5	US-PATENT-CLASS-156-659.1
		NASA-CASE-MFS-25981-1	US-PATENT-CLASS-52-309.15	US-PATENT-CLASS-156-661.1
N87-14671*	c 35	US-PATENT-APPL-SN-657310	US-PATENT-CLASS-52-391	US-PATENT-CLASS-156-904
		US-PATENT-CLASS-73-462	US-PATENT-CLASS-52-511	US-PATENT-CLASS-204-298
		US-PATENT-CLASS-73-473	US-PATENT-CLASS-52-814	US-PATENT-4,620,898
		US-PATENT-CLASS-73-477	US-PATENT-4,637,181	NASA-CASE-LAR-13455-1
		US-PATENT-4,619,142	NASA-CASE-ARC-11547-1	US-PATENT-APPL-SN-804040
N87-14671*	c 35	NASA-CASE-GSC-12956-1	US-PATENT-APPL-SN-692745	US-PATENT-CLASS-250-341
		US-PATENT-APPL-SN-745977	US-PATENT-CLASS-356-28	US-PATENT-CLASS-374-122
		US-PATENT-CLASS-148-187	US-PATENT-CLASS-356-28.5	US-PATENT-CLASS-374-9
		US-PATENT-CLASS-148-188	US-PATENT-4,632,548	US-PATENT-4,645,358
		US-PATENT-CLASS-148-189	NASA-CASE-NPO-16321-1CU	NASA-CASE-NPO-16256-1
N87-14671*	c 35	US-PATENT-CLASS-148-190	US-PATENT-APPL-SN-692802	US-PATENT-APPL-SN-638586

				US-PATENT-CLASS-329-107				US-PATENT-CLASS-313-361.1				US-PATENT-APPL-SN-853361
				US-PATENT-CLASS-375-110				US-PATENT-CLASS-313-362.1				US-PATENT-CLASS-285-305
				US-PATENT-CLASS-375-120				US-PATENT-4,649,278				US-PATENT-CLASS-285-81
				US-PATENT-CLASS-375-23		N87-21661*	c 72	NASA-CASE-NPO-16640-1-CU				US-PATENT-CLASS-285-85
				US-PATENT-CLASS-455-608				US-PATENT-APPL-SN-852468				US-PATENT-CLASS-285-91
				US-PATENT-4,648,133				US-PATENT-CLASS-250-251				US-PATENT-4,655,482
N87-21232*	c 33			NASA-CASE-GSC-13018-1				US-PATENT-CLASS-250-396-R		N87-22985*	c 37	NASA-CASE-MSC-20979-1
				US-PATENT-APPL-SN-862959				US-PATENT-CLASS-250-423-P				US-PATENT-APPL-SN-796053
				US-PATENT-CLASS-331-116-R				US-PATENT-CLASS-376-127				US-PATENT-CLASS-244-161
				US-PATENT-CLASS-331-117-R				US-PATENT-4,649,273				US-PATENT-4,664,344
				US-PATENT-CLASS-331-56		N87-21679*	c 74	NASA-CASE-GSC-12897-1		N87-23259*	c 74	NASA-CASE-NPO-16558-1-CU
				US-PATENT-4,660,000				US-PATENT-APPL-SN-606432				US-PATENT-APPL-SN-779744
N87-21233*	c 33			NASA-CASE-MFS-28080-1				US-PATENT-CLASS-350-6.5				US-PATENT-CLASS-250-231-GY
				US-PATENT-APPL-SN-775548				US-PATENT-4,647,144				US-PATENT-CLASS-356-350
				US-PATENT-CLASS-318-138		N87-21755*	c 85	NASA-CASE-KSC-11282-1				US-PATENT-4,662,751
				US-PATENT-CLASS-318-254				US-PATENT-APPL-SN-751644		N87-23286*	c 76	NASA-CASE-NPO-15800-2
				US-PATENT-CLASS-318-439				US-PATENT-CLASS-180-19.2				US-PATENT-APPL-SN-442815
				US-PATENT-4,644,234				US-PATENT-CLASS-180-305				US-PATENT-APPL-SN-674395
N87-21234*	c 33			NASA-CASE-LEW-13935-1				US-PATENT-CLASS-280-47.11				US-PATENT-CLASS-156-607
				US-PATENT-APPL-SN-700255				US-PATENT-CLASS-296-20				US-PATENT-CLASS-156-617-H
				US-PATENT-CLASS-250-423-R				US-PATENT-CLASS-5-81-R				US-PATENT-CLASS-156-617-SP
				US-PATENT-CLASS-315-111.81				US-PATENT-CLASS-60-415				US-PATENT-4,654,110
				US-PATENT-4,642,523		N87-21755*	c 85	US-PATENT-4,646,860		N87-23631*	c 08	NASA-CASE-ARC-11633-1
N87-21235*	c 33			NASA-CASE-LAR-13151-1				NASA-CASE-LAR-12984-1				US-PATENT-APPL-SN-846439
				US-PATENT-APPL-SN-683101				US-PATENT-APPL-SN-578387				US-PATENT-CLASS-416-114
				US-PATENT-CLASS-307-261				US-PATENT-CLASS-244-1-R				US-PATENT-CLASS-416-158
				US-PATENT-CLASS-307-354				US-PATENT-CLASS-340-945				US-PATENT-4,669,958
				US-PATENT-CLASS-328-147				US-PATENT-CLASS-340-971		N87-23698*	c 23	NASA-CASE-ARC-11643-1-SB
				US-PATENT-CLASS-328-164				US-PATENT-CLASS-340-975				US-PATENT-APPL-SN-901496
				US-PATENT-CLASS-328-28				US-PATENT-CLASS-73-178-R				US-PATENT-CLASS-423-276
				US-PATENT-4,652,833				US-PATENT-4,663,627				US-PATENT-CLASS-423-284
N87-21255*	c 34			NASA-CASE-ARC-11631-1		N87-22845*	c 27	NASA-CASE-ARC-11429-2-CU				US-PATENT-4,676,962
				US-PATENT-APPL-SN-846428				US-PATENT-APPL-SN-553339		N87-23713* #	c 25	NASA-CASE-LAR-13597-1-CU
				US-PATENT-CLASS-239-426				US-PATENT-APPL-SN-725727				US-PATENT-APPL-SN-008199
				US-PATENT-CLASS-239-434				US-PATENT-CLASS-524-404		N87-23736*	c 27	NASA-CASE-LEW-14072-3
				US-PATENT-CLASS-239-545				US-PATENT-CLASS-524-548				US-PATENT-APPL-SN-834977
				US-PATENT-CLASS-73-147				US-PATENT-CLASS-525-182				US-PATENT-CLASS-428-421
				US-PATENT-4,648,267				US-PATENT-CLASS-526-262				US-PATENT-CLASS-428-422
N87-21304*	c 35			NASA-CASE-NPO-15617-1				US-PATENT-4,526,925				US-PATENT-CLASS-428-447
				US-PATENT-APPL-SN-403849				US-PATENT-4,647,615				US-PATENT-CLASS-428-473.5
				US-PATENT-CLASS-74-424.8-R		N87-22847*	c 27	NASA-CASE-LAR-13444-1-CU				US-PATENT-CLASS-428-702
				US-PATENT-CLASS-74-441				US-PATENT-APPL-SN-734366				US-PATENT-4,664,980
				US-PATENT-CLASS-74-458				US-PATENT-CLASS-528-229		N87-23737* #	c 27	NAS 1.71:ARC-11652-1
				US-PATENT-CLASS-74-468				US-PATENT-CLASS-546-262				NASA-CASE-ARC-11652-1
				US-PATENT-CLASS-74-89.15				US-PATENT-CLASS-546-264				US-PATENT-APPL-SN-008242
				US-PATENT-4,586,394				US-PATENT-CLASS-564-330		N87-23751*	c 27	NASA-CASE-ARC-11533-1
N87-21332*	c 37			NASA-CASE-MFS-28058-1				US-PATENT-CLASS-564-396				US-PATENT-APPL-SN-641147
				US-PATENT-APPL-SN-751691				US-PATENT-CLASS-564-430				US-PATENT-CLASS-548-413
				US-PATENT-CLASS-137-606				US-PATENT-4,663,483				US-PATENT-4,670,565
				US-PATENT-CLASS-251-165		N87-22848*	c 27	NASA-CASE-LAR-13452-1		N87-23879*	c 33	NASA-CASE-NPO-16467-1-CU
				US-PATENT-4,657,044				US-PATENT-APPL-SN-838655				US-PATENT-APPL-SN-838648
N87-21333*	c 37			NASA-CASE-MFS-25956-1				US-PATENT-CLASS-525-36				US-PATENT-CLASS-136-249
				US-PATENT-APPL-SN-580397				US-PATENT-CLASS-528-176				US-PATENT-CLASS-136-255
				US-PATENT-CLASS-248-316.4				US-PATENT-CLASS-528-184				US-PATENT-CLASS-357-30
				US-PATENT-CLASS-248-550				US-PATENT-CLASS-528-192				US-PATENT-CLASS-357-35
				US-PATENT-4,582,289				US-PATENT-CLASS-528-193				US-PATENT-4,665,277
N87-21334*	c 37			NASA-CASE-NPO-16423-1-CU				US-PATENT-4,661,558		N87-23904*	c 33	NASA-CASE-GSC-12773-2
				US-PATENT-APPL-SN-765978		N87-22894*	c 33	NASA-CASE-NPO-16337-1-CU				US-PATENT-APPL-SN-809851
				US-PATENT-CLASS-228-124				US-PATENT-APPL-SN-683111				US-PATENT-CLASS-290-1-R
				US-PATENT-CLASS-228-208				US-PATENT-CLASS-324-158-D				US-PATENT-CLASS-310-15
				US-PATENT-CLASS-228-209				US-PATENT-CLASS-324-158-R				US-PATENT-CLASS-310-30
				US-PATENT-CLASS-427-229				US-PATENT-4,661,770				US-PATENT-4,675,563
				US-PATENT-4,650,108		N87-22895*	c 33	NASA-CASE-GSC-12961-1		N87-23941* #	c 35	NAS 1.71:LAR-13689-1
N87-21410*	c 44			NASA-CASE-MFS-25978-1				US-PATENT-APPL-SN-754707				NASA-CASE-LAR-13689-1-NP
				US-PATENT-APPL-SN-636459				US-PATENT-CLASS-307-490				US-PATENT-APPL-SN-929869
				US-PATENT-CLASS-307-131				US-PATENT-CLASS-330-107		N87-23944*	c 35	NASA-CASE-MFS-28087-1
				US-PATENT-CLASS-307-31				US-PATENT-CLASS-330-294				US-PATENT-APPL-SN-805010
				US-PATENT-CLASS-307-64				US-PATENT-CLASS-331-177-R				US-PATENT-CLASS-373-10
				US-PATENT-CLASS-307-66				US-PATENT-CLASS-333-214				US-PATENT-CLASS-373-15
				US-PATENT-CLASS-307-80				US-PATENT-CLASS-333-217				US-PATENT-4,677,642
				US-PATENT-CLASS-318-107				US-PATENT-4,644,306		N87-23960*	c 36	NASA-CASE-NPO-16542-1-CU
				US-PATENT-CLASS-318-161		N87-22950*	c 34	NASA-CASE-MSC-20841-1				US-PATENT-APPL-SN-781812
				US-PATENT-4,649,287				US-PATENT-APPL-SN-755288				US-PATENT-CLASS-350-3.73
N87-21591*	c 60			NASA-CASE-NPO-15982-1				US-PATENT-CLASS-165-1				US-PATENT-CLASS-350-3.81
				US-PATENT-APPL-SN-673685				US-PATENT-CLASS-165-104.14				US-PATENT-CLASS-372-103
				US-PATENT-CLASS-371-37				US-PATENT-CLASS-165-104.25				US-PATENT-CLASS-372-18
				US-PATENT-CLASS-371-40				US-PATENT-CLASS-165-104.26				US-PATENT-CLASS-372-43
				US-PATENT-4,649,541				US-PATENT-CLASS-165-34				US-PATENT-4,677,629
N87-21652*	c 71			NASA-CASE-LAR-13111-1-CU				US-PATENT-4,664,177		N87-23961*	c 36	NASA-CASE-NPO-16433-1
				US-PATENT-APPL-SN-751695		N87-22953*	c 35	NASA-CASE-NPO-16544-1-CU				US-PATENT-APPL-SN-790594
				US-PATENT-CLASS-73-583				US-PATENT-APPL-SN-746809				US-PATENT-CLASS-372-68
				US-PATENT-CLASS-73-589				US-PATENT-CLASS-324-61-R				US-PATENT-CLASS-372-81
				US-PATENT-CLASS-73-599				US-PATENT-CLASS-73-336.5				US-PATENT-4,677,636
				US-PATENT-4,644,794				US-PATENT-4,662,220		N87-23970*	c 37	NASA-CASE-NPO-15482-1
N87-21653*	c 71			NASA-CASE-LAR-13440-1		N87-22976*	c 37	NASA-CASE-LAR-13009-2				US-PATENT-APPL-SN-526739
				US-PATENT-APPL-SN-775989				US-PATENT-APPL-SN-495380				US-PATENT-CLASS-310-306
				US-PATENT-CLASS-73-1-DV				US-PATENT-APPL-SN-698279				US-PATENT-CLASS-337-393
				US-PATENT-CLASS-73-599				US-PATENT-CLASS-411-166				US-PATENT-4,665,334
				US-PATENT-4,649,750				US-PATENT-CLASS-411-368		N87-23981*	c 37	NASA-CASE-MSC-20797-1
N87-21660*	c 72			NASA-CASE-NPO-16061-1-CU				US-PATENT-CLASS-411-424				US-PATENT-APPL-SN-771537
				US-PATENT-APPL-SN-729768				US-PATENT-CLASS-411-427				US-PATENT-CLASS-156-286
				US-PATENT-CLASS-250-288				US-PATENT-CLASS-411-531				US-PATENT-CLASS-156-289
				US-PATENT-CLASS-250-423-R				US-PATENT-4,572,699				US-PATENT-CLASS-156-298
				US-PATENT-CLASS-250-424				US-PATENT-4,650,385				US-PATENT-CLASS-156-307.1
				US-PATENT-CLASS-250-427		N87-22977*	c 37	NASA-CASE-MFS-25964-2				US-PATENT-CLASS-156-307.3
				US-PATENT-CLASS-313-359.1				US-PATENT-APPL-SN-692801				US-PATENT-CLASS-156-307.7

		US-PATENT-CLASS-156-87			US-PATENT-CLASS-375-54			US-PATENT-CLASS-148-162
		US-PATENT-4,676,853			US-PATENT-CLASS-375-59			US-PATENT-CLASS-148-410
N87-23982*	c 37	NASA-CASE-LAR-13100-1			US-PATENT-CLASS-375-76			US-PATENT-4,676,846
		US-PATENT-APPL-SN-831377			US-PATENT-4,682,343	N87-28656*	c 27	NASA-CASE-LEW-14392-1
		US-PATENT-CLASS-250-238	N87-25555* #	c 35	NASA-CASE-MSC-21166-1			US-PATENT-APPL-SN-886149
		US-PATENT-CLASS-250-352			US-PATENT-APPL-SN-032685			US-PATENT-CLASS-264-332
		US-PATENT-CLASS-62-514-R	N87-25558* #	c 35	NASA-CASE-LAR-13564-1			US-PATENT-CLASS-264-60
		US-PATENT-4,672,202			US-PATENT-APPL-SN-044180			US-PATENT-CLASS-264-63
N87-23983*	c 37	NASA-CASE-LAR-13198-1	N87-25561* #	c 35	NASA-CASE-LAR-13680-1			US-PATENT-CLASS-428-367
		US-PATENT-APPL-SN-729704			US-PATENT-APPL-SN-052941			US-PATENT-4,689,188
		US-PATENT-CLASS-60-634	N87-25567*	c 36	NASA-CASE-NPO-16497-1-CU	N87-28657*	c 27	NASA-CASE-LAR-13450-1
		US-PATENT-CLASS-60-638			US-PATENT-APPL-SN-783887			US-PATENT-APPL-SN-840816
		US-PATENT-CLASS-89-1.14			US-PATENT-CLASS-307-425			US-PATENT-CLASS-428-290
		US-PATENT-4,669,354			US-PATENT-CLASS-372-20			US-PATENT-CLASS-525-426
N87-24564*	c 27	NASA-CASE-ARC-11533-3			US-PATENT-CLASS-372-4			US-PATENT-CLASS-525-432
		US-PATENT-APPL-SN-852467			US-PATENT-CLASS-372-69			US-PATENT-CLASS-525-436
		US-PATENT-CLASS-528-413			US-PATENT-CLASS-372-99			US-PATENT-CLASS-525-903
		US-PATENT-4,675,379			US-PATENT-4,682,053			US-PATENT-4,695,610
N87-24575* #	c 27	NAS 1.71:LAR-13633-1	N87-25573*	c 37	NASA-CASE-ARC-11620-1	N87-28831*	c 33	NASA-CASE-LAR-13407-1
		NASA-CASE-LAR-13633-1			US-PATENT-APPL-SN-795945			US-PATENT-APPL-SN-804196
		US-PATENT-APPL-SN-011693			US-PATENT-CLASS-137-614.11			US-PATENT-CLASS-313-505
N87-24689*	c 37	NASA-CASE-MFS-28110-1			US-PATENT-CLASS-137-614.18			US-PATENT-CLASS-313-506
		US-PATENT-APPL-SN-852466			US-PATENT-CLASS-251-129.15			US-PATENT-CLASS-313-509
		US-PATENT-CLASS-239-433			US-PATENT-CLASS-251-175			US-PATENT-4,689,522
		US-PATENT-CLASS-239-596			US-PATENT-4,681,142	N87-28832*	c 33	NASA-CASE-LEW-14108-1
		US-PATENT-CLASS-239-600	N87-25582*	c 37	NASA-CASE-MSC-20910-1			US-PATENT-APPL-SN-732321
		US-PATENT-4,666,086			US-PATENT-APPL-SN-783888			US-PATENT-CLASS-313-237
N87-24874*	c 52	NASA-CASE-MFS-26011-1-SB			US-PATENT-CLASS-244-161			US-PATENT-CLASS-313-278
		US-PATENT-APPL-SN-655605			US-PATENT-CLASS-292-DIG.49			US-PATENT-4,687,964
		US-PATENT-CLASS-351-206			US-PATENT-CLASS-292-201	N87-28833*	c 33	NASA-CASE-ARC-11613-1
		US-PATENT-CLASS-351-208			US-PATENT-CLASS-292-64			US-PATENT-APPL-SN-739792
		US-PATENT-CLASS-354-62			US-PATENT-4,682,745			US-PATENT-CLASS-244-134-D
		US-PATENT-4,669,836	N87-25585* #	c 37	NASA-CASE-LEW-14196-2			US-PATENT-CLASS-318-116
N87-25334*	c 09	NASA-CASE-LAR-13522-1-SB			US-PATENT-APPL-SN-054983			US-PATENT-4,690,353
		US-PATENT-APPL-SN-890575	N87-25601*	c 39	NASA-CASE-MFS-28118-1	N87-28867*	c 34	NASA-CASE-MSC-20946-1
		US-PATENT-CLASS-73-147			US-PATENT-APPL-SN-886121			US-PATENT-APPL-SN-875799
		US-PATENT-CLASS-73-856			US-PATENT-CLASS-73-809			US-PATENT-CASE-165-1
		US-PATENT-4,682,494			US-PATENT-CLASS-73-810			US-PATENT-CASE-165-104.25
N87-25344*	c 14	NASA-CASE-ARC-11646-1			US-PATENT-4,676,110			US-PATENT-CASE-165-104.26
		US-PATENT-APPL-SN-924398	N87-25803* #	c 62	NASA-CASE-NPO-17058-1-CU			US-PATENT-CASE-165-13
		US-PATENT-CLASS-434-34			US-PATENT-APPL-SN-060201			US-PATENT-CASE-165-32
		US-PATENT-4,678,438	N87-25843*	c 74	NASA-CASE-MFS-29207-1			US-PATENT-CASE-165-41
N87-25348*	c 17	NASA-CASE-MSC-20821-1			US-PATENT-APPL-SN-713449			US-PATENT-4,687,048
		US-PATENT-APPL-SN-775990			US-PATENT-APPL-SN-783890	N87-28884*	c 35	NASA-CASE-LAR-13512-1
		US-PATENT-CLASS-358-105			US-PATENT-CLASS-219-124.34			US-PATENT-APPL-SN-901113
		US-PATENT-CLASS-358-133			US-PATENT-CLASS-219-130.01			US-PATENT-CLASS-285-137.1
		US-PATENT-CLASS-358-138			US-PATENT-CLASS-219-74			US-PATENT-CLASS-285-901
		US-PATENT-4,682,225			US-PATENT-4,633,060			US-PATENT-CLASS-73-147
N87-25455*	c 26	NASA-CASE-LAR-13474-1-SB			US-PATENT-4,682,006			US-PATENT-CLASS-73-756
		US-PATENT-APPL-SN-840900	N87-25862*	c 76	NASA-CASE-MFS-28060-1			US-PATENT-4,688,422
		US-PATENT-CLASS-148-6.3			US-PATENT-APPL-SN-706565	N87-29118*	c 54	NASA-CASE-LAR-13393-1
		US-PATENT-CLASS-204-192.15			US-PATENT-CLASS-356-128			US-PATENT-APPL-SN-760799
		US-PATENT-CLASS-204-192.23			US-PATENT-CLASS-356-129			US-PATENT-CLASS-182-223
		US-PATENT-CLASS-428-607			US-PATENT-4,681,437			US-PATENT-CLASS-182-63
		US-PATENT-CLASS-428-632	N87-25868* #	c 76	NASA-CASE-NPO-16808-1-CU			US-PATENT-CLASS-182-82
		US-PATENT-CLASS-428-651			US-PATENT-APPL-SN-027981			US-PATENT-4,685,535
		US-PATENT-CLASS-428-660	N87-27713*	c 18	NASA-CASE-LAR-13489-1	N87-29360*	c 76	NASA-CASE-LAR-13476-1-CU
		US-PATENT-4,681,818			US-PATENT-APPL-SN-890445			US-PATENT-APPL-SN-893961
N87-25469*	c 27	NASA-CASE-ARC-11548-1			US-PATENT-CLASS-285-27			US-PATENT-CLASS-423-338
		US-PATENT-APPL-SN-806572			US-PATENT-CLASS-285-31			US-PATENT-CLASS-423-339
		US-PATENT-CLASS-428-413			US-PATENT-CLASS-285-373			US-PATENT-4,696,808
		US-PATENT-CLASS-428-417			US-PATENT-CLASS-285-421	N87-29372*	c 82	NASA-CASE-LAR-13306-1
		US-PATENT-CLASS-528-108			US-PATENT-CLASS-285-86			US-PATENT-APPL-SN-846430
		US-PATENT-CLASS-528-168			US-PATENT-CLASS-403-341			US-PATENT-CLASS-340-407
		US-PATENT-4,668,589			US-PATENT-4,684,156			US-PATENT-CLASS-434-114
N87-25474* #	c 27	NASA-CASE-LAR-13732-1	N87-27742* #	c 24	NASA-CASE-LAR-13150-1			US-PATENT-4,687,444
		US-PATENT-APPL-SN-035430			US-PATENT-APPL-SN-729767	N87-29586* #	c 18	NAS 1.71:LAR-13738-1
N87-25489* #	c 29	NASA-CASE-NPO-17022-1-CU			US-PATENT-CLASS-29-156.5-R			NASA-CASE-LAR-13738-1
		US-PATENT-APPL-SN-066450			US-PATENT-CLASS-92-208			US-PATENT-APPL-SN-073539
N87-25491*	c 31	NASA-CASE-MFS-28044-1			US-PATENT-4,683,809	N87-29650* #	c 26	NAS 1.71:LAR-13632-1
		US-PATENT-APPL-SN-804039	N87-28006*	c 36	NASA-CASE-NPO-16567-1-CU			NASA-CASE-LAR-13632-1
		US-PATENT-CLASS-408-1-R			US-PATENT-APPL-SN-760790			US-PATENT-APPL-SN-079316
		US-PATENT-CLASS-51-281-R			US-PATENT-CLASS-250-339	N87-29672* #	c 27	NAS 1.71:MSC-21082-1
		US-PATENT-4,680,897			US-PATENT-CLASS-250-343			NASA-CASE-MSC-21082-1
N87-25492*	c 31	NASA-CASE-LAR-13113-1			US-PATENT-CLASS-250-373			US-PATENT-APPL-SN-079320
		US-PATENT-APPL-SN-831371			US-PATENT-CLASS-356-256	N88-14071*	c 02	NASA-CASE-LAR-13286-1
		US-PATENT-CLASS-182-152			US-PATENT-CLASS-356-409			US-PATENT-APPL-SN-686959
		US-PATENT-CLASS-52-108			US-PATENT-CLASS-356-51			US-PATENT-CLASS-114-67R
		US-PATENT-CLASS-52-632			US-PATENT-4,684,258			US-PATENT-CLASS-138-38
		US-PATENT-CLASS-52-646	N87-28416*	c 74	NASA-CASE-ARC-11611-1			US-PATENT-CLASS-244-130
		US-PATENT-4,677,803			US-PATENT-APPL-SN-765981			US-PATENT-CLASS-244-199
N87-25495* #	c 31	NASA-CASE-MSC-21025-1			US-PATENT-CLASS-156-163			US-PATENT-CLASS-244-200
		US-PATENT-APPL-SN-035401			US-PATENT-CLASS-156-229			US-PATENT-CLASS-296-1S
N87-25511*	c 32	NASA-CASE-NPO-16414-1-CU			US-PATENT-CLASS-156-286			US-PATENT-4,706,910
		US-PATENT-APPL-SN-729719			US-PATENT-CLASS-156-382	N88-14083*	c 03	NASA-CASE-LAR-13470-1
		US-PATENT-CLASS-332-23-A			US-PATENT-CLASS-156-494			US-PATENT-APPL-SN-855983
		US-PATENT-CLASS-375-101			US-PATENT-CLASS-264-291			US-PATENT-CLASS-361-218
		US-PATENT-CLASS-375-102			US-PATENT-4,684,424			US-PATENT-CLASS-361-222
		US-PATENT-CLASS-375-39	N87-28605*	c 23	NASA-CASE-ARC-11425-2			US-PATENT-4,698,723
		US-PATENT-CLASS-375-54			US-PATENT-APPL-SN-641152	N88-14179*	c 26	NASA-CASE-LEW-14104-2
		US-PATENT-CLASS-455-65			US-PATENT-CLASS-558-145			US-PATENT-APPL-SN-661481
		US-PATENT-4,675,880			US-PATENT-CLASS-558-190			US-PATENT-APPL-SN-823713
N87-25531*	c 33	NASA-CASE-MSC-20187-1			US-PATENT-CLASS-558-193			US-PATENT-CLASS-148-16.6
		US-PATENT-APPL-SN-649327			US-PATENT-4,689,421			US-PATENT-CLASS-204-192.31
		US-PATENT-CLASS-371-43	N87-28647*	c 26	NASA-CASE-LEW-14262-1			US-PATENT-CLASS-427-38
		US-PATENT-CLASS-375-120			US-PATENT-APPL-SN-832296			US-PATENT-4,704,168

N88-14223

ACCESSION NUMBER INDEX

N88-14223*	c 31	NASA-CASE-NPO-16734-1-CU US-PATENT-APPL-SN-855982 US-PATENT-CLASS-62-467 US-PATENT-CLASS-62-48 US-PATENT-CLASS-62-514R US-PATENT-4,697,425	US-PATENT-CLASS-73-178-R US-PATENT-4,727,751	NASA-CASE-LAR-13508-1 US-PATENT-APPL-SN-146939
N88-14270*	c 33	NASA-CASE-NPO-16764-1-CU US-PATENT-APPL-SN-904513 US-PATENT-CLASS-439-271 US-PATENT-CLASS-439-578 US-PATENT-4,698,028	N88-23765* c 05 NASA-CASE-LAR-13511-1 US-PATENT-APPL-SN-013801 US-PATENT-CLASS-244-119 US-PATENT-CLASS-244-120 US-PATENT-CLASS-244-130 US-PATENT-CLASS-244-15 US-PATENT-4,735,381	N88-23963* # c 35 NAS 1.71: LAR-13519-1 NASA-CASE-LAR-13519-1 US-PATENT-APPL-SN-146938 NASA-CASE-MSC-20467-1 US-PATENT-APPL-SN-874319 US-PATENT-CLASS-73-587 US-PATENT-CLASS-73-801 US-PATENT-4,738,137
N88-14271*	c 33	NASA-CASE-GSC-12782-1 US-PATENT-APPL-SN-399074 US-PATENT-CLASS-357-231 US-PATENT-CLASS-357-24 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-56 US-PATENT-CLASS-357-61 US-PATENT-CLASS-357-65 US-PATENT-4,709,252	N88-23808* c 08 NASA-CASE-GSC-12970-1 US-PATENT-APPL-SN-795805 US-PATENT-CLASS-244-165 US-PATENT-4,732,353	N88-23967* c 35 NASA-CASE-LAR-13458-1 US-PATENT-APPL-SN-013802 US-PATENT-CLASS-73-794 US-PATENT-CLASS-73-810 US-PATENT-4,718,281
N88-14350*	c 36	NASA-CASE-ARC-11634-1 US-PATENT-APPL-SN-846427 US-PATENT-CLASS-350-163 US-PATENT-CLASS-350-174 US-PATENT-CLASS-350-572 US-PATENT-CLASS-350-573 US-PATENT-CLASS-356-28.5 US-PATENT-4,697,922	N88-23809* c 08 NASA-CASE-LAR-13630-1 US-PATENT-APPL-SN-008895 US-PATENT-CLASS-244-17.19 US-PATENT-CLASS-244-91 US-PATENT-4,708,305	N88-23973* # c 37 NAS 1.71: MSC-21171-1 NASA-CASE-MSC-21171-1 US-PATENT-APPL-SN-135120 NAS 1.71: MFS-28273-1
N88-14359*	c 37	NASA-CASE-LAR-13662-1 US-PATENT-APPL-SN-790597 US-PATENT-APPL-SN-904812 US-PATENT-CLASS-228-107 US-PATENT-CLASS-228-109 US-PATENT-CLASS-228-2.5 US-PATENT-4,708,280	N88-23827* c 18 NASA-CASE-MSC-21056-1 US-PATENT-APPL-SN-934397 US-PATENT-CLASS-16-292 US-PATENT-CLASS-16-297 US-PATENT-CLASS-16-326 US-PATENT-CLASS-16-332 US-PATENT-CLASS-16-345 US-PATENT-CLASS-16-347 US-PATENT-CLASS-16-349 US-PATENT-4,736,490	N88-23974* # c 37 NAS 1.71: MFS-28273-1 NASA-CASE-MFS-28273-1 US-PATENT-APPL-SN-149830 NASA-CASE-LEW-14212-1 US-PATENT-APPL-SN-875798 US-PATENT-CLASS-415-136 US-PATENT-CLASS-415-170-R US-PATENT-4,728,257
N88-14360*	c 37	NASA-CASE-MFS-28001-2 US-PATENT-APPL-SN-025039 US-PATENT-APPL-SN-739788 US-PATENT-CLASS-269-43 US-PATENT-CLASS-269-71 US-PATENT-CLASS-269-73 US-PATENT-4,708,330	N88-23828* c 18 NASA-CASE-LAR-13411-1-SB US-PATENT-APPL-SN-913432 US-PATENT-CLASS-180-8.6 US-PATENT-CLASS-414-735 US-PATENT-CLASS-414-750 US-PATENT-CLASS-901-1 US-PATENT-CLASS-901-33 US-PATENT-4,738,583	N88-23979* c 37 NASA-CASE-MFS-28185-1 US-PATENT-APPL-SN-056930 US-PATENT-CLASS-294-106 US-PATENT-CLASS-294-113 US-PATENT-CLASS-294-119.2 US-PATENT-CLASS-294-16 US-PATENT-4,723,800
N88-14361*	c 37	NASA-CASE-LAR-13453-1 US-PATENT-APPL-SN-010950 US-PATENT-CLASS-33-147D US-PATENT-CLASS-73-834 US-PATENT-4,706,387	N88-23845* c 25 NASA-CASE-MFS-28142-1 US-PATENT-APPL-SN-904128 US-PATENT-CLASS-204-180.1 US-PATENT-CLASS-204-299-R US-PATENT-4,752,372	N88-23980* c 37 NASA-CASE-MFS-29252-1 US-PATENT-APPL-SN-044181 US-PATENT-CLASS-219-137.42 US-PATENT-CLASS-219-75 US-PATENT-4,749,839
N88-14362*	c 37	NASA-CASE-MFS-29177-1 US-PATENT-APPL-SN-010942 US-PATENT-CLASS-219-124.34 US-PATENT-CLASS-219-130.01 US-PATENT-CLASS-219-136 US-PATENT-4,698,484	N88-23846* c 25 NASA-CASE-NPO-15609-2 US-PATENT-APPL-SN-511363 US-PATENT-APPL-SN-761310 US-PATENT-CLASS-159-3 US-PATENT-CLASS-159-48.2 US-PATENT-CLASS-159-900 US-PATENT-CLASS-203-90 US-PATENT-CLASS-203-91 US-PATENT-CLASS-203-98 US-PATENT-4,666,561	N88-23981* c 37 NASA-CASE-LAR-13435-1 US-PATENT-APPL-SN-890683 US-PATENT-CLASS-123-193-P US-PATENT-CLASS-92-176 US-PATENT-CLASS-92-212 US-PATENT-CLASS-92-214 US-PATENT-CLASS-92-222 US-PATENT-CLASS-92-224 US-PATENT-4,736,676
N88-14492*	c 44	NASA-CASE-ARC-11622-1 US-PATENT-APPL-SN-823712 US-PATENT-CLASS-126-425 US-PATENT-CLASS-250-203R US-PATENT-4,710,618	N88-23894* c 27 NASA-CASE-GSC-13008-1 US-PATENT-APPL-SN-867987 US-PATENT-CLASS-264-DIG.64 US-PATENT-CLASS-264-50 US-PATENT-CLASS-425-4-R US-PATENT-4,731,211	N88-23982* c 37 NASA-CASE-LAR-12801-1 US-PATENT-APPL-SN-309291 US-PATENT-CLASS-188-373 US-PATENT-CLASS-248-548 US-PATENT-CLASS-248-608 US-PATENT-CLASS-297-216 US-PATENT-4,720,139
N88-14835*	c 76	NASA-CASE-MFS-26008-1-CU US-PATENT-APPL-SN-800194 US-PATENT-CLASS-156-621 US-PATENT-CLASS-156-622 US-PATENT-CLASS-156-624 US-PATENT-CLASS-422-251 US-PATENT-CLASS-422-260 US-PATENT-4,711,697	N88-23917* # c 31 NAS 1.71: NPO-17334-1-CU NASA-CASE-NPO-17334-1-CU US-PATENT-APPL-SN-149821	N88-24163* c 54 NASA-CASE-MFS-26009-1-SB US-PATENT-APPL-SN-805011 US-PATENT-CLASS-108-3 US-PATENT-CLASS-108-7 US-PATENT-CLASS-312-196 US-PATENT-CLASS-312-208 US-PATENT-CLASS-312-300 US-PATENT-CLASS-312-7.2 US-PATENT-4,725,106
N88-14836*	c 76	NASA-CASE-NPO-16607-1-CU US-PATENT-APPL-SN-901114 US-PATENT-CLASS-357-30 US-PATENT-CLASS-437-128 US-PATENT-CLASS-437-131 US-PATENT-CLASS-437-3 US-PATENT-CLASS-437-7 US-PATENT-CLASS-437-8 US-PATENT-CLASS-437-969 US-PATENT-4,711,857	N88-23941* c 33 NASA-CASE-MSC-20181-1 US-PATENT-APPL-SN-392093 US-PATENT-CLASS-174-52-PE US-PATENT-CLASS-174-52-R US-PATENT-CLASS-174-52-S US-PATENT-CLASS-357-72 US-PATENT-CLASS-357-74 US-PATENT-CLASS-357-81 US-PATENT-CLASS-525-425 US-PATENT-4,750,031	N88-24169* c 60 NASA-CASE-NPO-16462-1-CU US-PATENT-APPL-SN-815106 US-PATENT-CLASS-364-728 US-PATENT-CLASS-364-757 US-PATENT-CLASS-382-42 US-PATENT-4,750,144
N88-18628*	c 24	NAS 1.71: ARC-11641-1 NASA-CASE-ARC-11641-1 US-PATENT-APPL-SN-862925 US-PATENT-CLASS-244-117-A US-PATENT-CLASS-244-158-A US-PATENT-CLASS-428-44 US-PATENT-CLASS-428-74 US-PATENT-CLASS-428-76 US-PATENT-CLASS-428-920 US-PATENT-4,713,275	N88-23942* c 33 NASA-CASE-LAR-13202-1 US-PATENT-APPL-SN-879758 US-PATENT-CLASS-315-200-R US-PATENT-CLASS-315-227-R US-PATENT-CLASS-315-241-R US-PATENT-CLASS-315-254 US-PATENT-CLASS-315-255 US-PATENT-CLASS-315-276 US-PATENT-CLASS-315-277 US-PATENT-4,723,096	N88-24241* c 71 NASA-CASE-NPO-16675-1-CU US-PATENT-APPL-SN-627537 US-PATENT-APPL-SN-789266 US-PATENT-CLASS-181-0.5 US-PATENT-CLASS-367-191 US-PATENT-CLASS-73-505 US-PATENT-4,573,356 US-PATENT-4,736,815
N88-18725*	c 27	NAS 1.71: LAR-13447-1 NASA-CASE-LAR-13447-1 US-PATENT-APPL-SN-855879 US-PATENT-CLASS-525-397 US-PATENT-CLASS-525-905 US-PATENT-4,711,932	N88-23946* # c 34 NAS 1.71: NPO-17291-1-CU NASA-CASE-NPO-17291-1-CU NASA-CASE-MSC-20841-2 US-PATENT-APPL-SN-032679 US-PATENT-APPL-SN-755288 US-PATENT-CLASS-126-423 US-PATENT-CLASS-165-1 US-PATENT-CLASS-165-104.14 US-PATENT-CLASS-165-13 US-PATENT-CLASS-165-41 US-PATENT-4,664,177 US-PATENT-4,750,543	N88-24253* c 72 NASA-CASE-MFS-28122-1 US-PATENT-APPL-SN-021100 US-PATENT-CLASS-250-251 US-PATENT-CLASS-250-423-R US-PATENT-CLASS-250-427 US-PATENT-CLASS-315-111.41 US-PATENT-CLASS-315-111.71 US-PATENT-CLASS-315-111.81 US-PATENT-4,742,232
N88-23759*	c 02	NASA-CASE-LAR-13436-1-CU US-PATENT-APPL-SN-003676 US-PATENT-CLASS-73-147	N88-23959* # c 35 NAS 1.71: MFS-28287-1 NASA-CASE-MFS-28287-1 US-PATENT-APPL-SN-122740	N88-24543* c 76 NASA-CASE-NPO-16681-1-CU US-PATENT-APPL-SN-764812 US-PATENT-CLASS-204-192.15 US-PATENT-CLASS-204-192.24 US-PATENT-4,726,890
			N88-23962* # c 35 NAS 1.71: LAR-13508-1	N88-24544* c 76 NASA-CASE-MFS-28137-1 US-PATENT-APPL-SN-925189 US-PATENT-CLASS-156-DIG.70 US-PATENT-CLASS-156-DIG.72 US-PATENT-CLASS-156-DIG.82

			US-PATENT-CLASS-156-607				US-PATENT-CLASS-244-159				US-PATENT-CLASS-165-905
			US-PATENT-CLASS-156-621				US-PATENT-4,757,767				US-PATENT-4,765,396
			US-PATENT-CLASS-156-624				NASA-CASE-LEW-14345-1		N88-29149*	c 35	NASA-CASE-LAR-13776-1
			US-PATENT-CLASS-422-246				US-PATENT-APPL-SN-924474				US-PATENT-APPL-SN-054980
			US-PATENT-4,738,831				US-PATENT-CLASS-260-386				US-PATENT-APPL-SN-846429
N88-24545*	c 76		NASA-CASE-MFS-28144-1				US-PATENT-CLASS-260-389				US-PATENT-CLASS-244-134-F
			US-PATENT-APPL-SN-924399				US-PATENT-CLASS-260-395				US-PATENT-CLASS-324-61-R
			US-PATENT-CLASS-156-DIG.70				US-PATENT-CLASS-549-241				US-PATENT-CLASS-340-580
			US-PATENT-CLASS-156-DIG.72				US-PATENT-4,758,380				US-PATENT-4,766,369
			US-PATENT-CLASS-156-DIG.82				NASA-1.71:NPO-17184-1-CU		N88-29150*	c 35	NASA-CASE-LAR-13826-1
			US-PATENT-CLASS-156-DIG.84				NASA-CASE-NPO-17184-1-CU				US-PATENT-APPL-SN-102705
			US-PATENT-CLASS-156-DIG.89				US-PATENT-APPL-SN-195225				US-PATENT-APPL-SN-684186
			US-PATENT-CLASS-156-DIG.92				NASA-CASE-MSC-20912-1				US-PATENT-APPL-SN-890982
			US-PATENT-CLASS-156-620.76				US-PATENT-APPL-SN-831193				US-PATENT-CLASS-73-290-R
			US-PATENT-4,740,264				US-PATENT-CLASS-342-125				US-PATENT-CLASS-73-304-R
N88-24660* #	c 16		NAS 1.71:MSC-21330-1				US-PATENT-CLASS-342-127				US-PATENT-4,765,187
			NASA-CASE-MSC-21330-1				US-PATENT-CLASS-342-43		N88-29151*	c 35	NASA-CASE-NPO-17068-1-CU
			US-PATENT-APPL-SN-182000				US-PATENT-CLASS-342-51				US-PATENT-APPL-SN-076956
N88-24684* #	c 20		NAS 1.71:MSC-21299-1				US-PATENT-4,757,315				US-PATENT-CLASS-60-527
			NASA-CASE-MSC-21299-1				NASA-CASE-NPO-17157-1-CU		N88-29180*	c 37	US-PATENT-4,765,139
			US-PATENT-APPL-SN-176587				US-PATENT-APPL-SN-116810				NASA-CASE-MSC-21207-1
N88-24692*	c 23		NASA-CASE-ARC-11428-3				US-PATENT-CLASS-331-162				US-PATENT-APPL-SN-032818
			US-PATENT-APPL-SN-599126				US-PATENT-CLASS-331-3				US-PATENT-CLASS-403-171
			US-PATENT-APPL-SN-760374				US-PATENT-CLASS-331-94-1				US-PATENT-CLASS-403-217
			US-PATENT-APPL-SN-924467				US-PATENT-4,757,278				US-PATENT-CLASS-52-646
			US-PATENT-CLASS-558-80				NASA-CASE-ARC-11636-1				US-PATENT-CLASS-52-648
			US-PATENT-CLASS-564-13				US-PATENT-APPL-SN-933963				US-PATENT-4,763,459
			US-PATENT-4,550,177				US-PATENT-CLASS-244-12.3		N88-29181*	c 37	NASA-CASE-MSC-21132-1
			US-PATENT-4,634,759				US-PATENT-CLASS-244-12.4				US-PATENT-APPL-SN-118992
			US-PATENT-4,748,263				US-PATENT-CLASS-244-207				US-PATENT-CLASS-188-218-XL
N88-24732*	c 25		NASA-CASE-NPO-16907-1-CU				US-PATENT-CLASS-244-45-A				US-PATENT-CLASS-188-251-A
			US-PATENT-APPL-SN-930217				US-PATENT-CLASS-244-55		N88-29310*	c 60	US-PATENT-4,763,762
			US-PATENT-CLASS-204-157.22				US-PATENT-4,767,083				NASA-CASE-NPO-16116-2
			US-PATENT-CLASS-250-423-P				NASA-CASE-LEW-14374-1				US-PATENT-APPL-SN-004282
			US-PATENT-CLASS-250-427				US-PATENT-APPL-SN-060200				US-PATENT-APPL-SN-587749
			US-PATENT-4,704,197				US-PATENT-CLASS-219-383				US-PATENT-CLASS-364-200
N88-24817* #	c 31		NAS 1.71:MFS-28248-1				US-PATENT-CLASS-363-97				US-PATENT-4,766,533
			NASA-CASE-MFS-28248-1				US-PATENT-CLASS-60-203.1		N88-29602* #	c 76	NAS 1.71:MFS-28282-1
			US-PATENT-APPL-SN-176545				US-PATENT-4,766,724				NASA-CASE-MFS-28282-1
N88-24862*	c 33		NASA-CASE-NPO-16402-2				NAS 1.71:NPO-17310-1-CU				US-PATENT-APPL-SN-217533
			US-PATENT-APPL-SN-013803				NASA-CASE-NPO-17310-1-CU		N88-30108*	c 35	NASA-CASE-LAR-13797-1
			US-PATENT-APPL-SN-727931				US-PATENT-APPL-SN-200874				US-PATENT-APPL-SN-074792
			US-PATENT-CLASS-307-106				NASA-CASE-MSC-21117-1				US-PATENT-APPL-SN-831372
			US-PATENT-CLASS-315-172				US-PATENT-APPL-SN-929875				US-PATENT-CLASS-156-233
			US-PATENT-CLASS-315-173				US-PATENT-CLASS-52-646				US-PATENT-CLASS-156-247
			US-PATENT-CLASS-328-67				US-PATENT-CLASS-52-648				US-PATENT-CLASS-156-272.4
			US-PATENT-4,698,518				US-PATENT-4,765,114				US-PATENT-CLASS-156-274.8
N88-24863* #	c 33		NAS 1.71:NPO-16882-1-CU				NASA-CASE-LAR-13528-1				US-PATENT-CLASS-156-275.5
			NASA-CASE-NPO-16882-1-CU				US-PATENT-APPL-SN-933962				US-PATENT-CLASS-156-307.7
			US-PATENT-APPL-SN-154711				US-PATENT-CLASS-236-15-E		N88-30131*	c 37	US-PATENT-4,767,484
N88-24927*	c 35		NASA-CASE-MSC-20549-2				US-PATENT-CLASS-364-500				NASA-CASE-MSC-20900-1
			US-PATENT-APPL-SN-045743				US-PATENT-CLASS-364-557				US-PATENT-APPL-SN-079317
			US-PATENT-APPL-SN-790596				US-PATENT-CLASS-364-571				US-PATENT-CLASS-219-121.54
			US-PATENT-CLASS-254-93-H				US-PATENT-CLASS-374-36				US-PATENT-CLASS-219-121.56
			US-PATENT-CLASS-254-93-R				US-PATENT-CLASS-431-13				US-PATENT-CLASS-219-121.57
			US-PATENT-CLASS-269-147				US-PATENT-CLASS-431-76				US-PATENT-CLASS-219-124.02
			US-PATENT-CLASS-269-246				US-PATENT-4,761,744				US-PATENT-CLASS-219-130.4
			US-PATENT-CLASS-72-750				NASA-CASE-ARC-11649-1-SB		N88-29040*	c 27	US-PATENT-4,766,286
			US-PATENT-4,736,927				US-PATENT-APPL-SN-890577				NAS 1.71:LAR-13889-1
N88-24941* #	c 35		NAS 1.71:MSC-21094-1				US-PATENT-CLASS-501-88		N88-30160* #	c 39	NASA-CASE-LAR-13889-1
			NASA-CASE-MSC-21094-1				US-PATENT-CLASS-501-91				US-PATENT-APPL-SN-210277
			US-PATENT-APPL-SN-156393				US-PATENT-CLASS-501-92				NASA-CASE-LAR-12852-1
N88-24943* #	c 35		NAS 1.71:NPO-17024-1-CU				US-PATENT-CLASS-501-93		N89-11738*	c 05	US-PATENT-APPL-SN-028832
			NASA-CASE-NPO-17024-1-CU				US-PATENT-CLASS-528-10				US-PATENT-CLASS-244-75-R
			US-PATENT-APPL-SN-159613				US-PATENT-CLASS-528-30				US-PATENT-CLASS-244-78
N88-24958*	c 36		NASA-CASE-MSC-20867-1				US-PATENT-CLASS-528-4				US-PATENT-4,773,620
			US-PATENT-APPL-SN-045984				US-PATENT-4,767,728		N89-11814* #	c 23	NAS 1.71:LAR-13988-1
			US-PATENT-CLASS-356-1				NASA-CASE-MSC-18172-3				NASA-CASE-LAR-13988-1
			US-PATENT-CLASS-356-376				US-PATENT-APPL-SN-119334				US-PATENT-APPL-SN-250661
			US-PATENT-CLASS-356-4				US-PATENT-APPL-SN-755960		N89-11961*	c 32	NASA-CASE-MSC-20873-1-SB
			US-PATENT-CLASS-358-107				US-PATENT-APPL-SN-898449				US-PATENT-APPL-SN-060196
			US-PATENT-CLASS-364-561				US-PATENT-CLASS-210-500.25				US-PATENT-CLASS-342-374
			US-PATENT-4,736,247				US-PATENT-CLASS-210-500.35				US-PATENT-CLASS-342-375
N88-24969* #	c 37		NAS 1.71:MSC-21354-1				US-PATENT-CLASS-210-639				US-PATENT-CLASS-343-777
			NASA-CASE-MSC-21354-1				US-PATENT-CLASS-210-653				US-PATENT-CLASS-343-778
			US-PATENT-APPL-SN-154712				US-PATENT-CLASS-427-245				US-PATENT-CLASS-343-779
N88-25011* #	c 39		NAS 1.71:LAR-13705-1				US-PATENT-4,762,619				US-PATENT-4,772,893
			NASA-CASE-LAR-13705-1				NASA-CASE-NPO-17196-1-CU		N89-12048*	c 35	NASA-CASE-LEW-14297-1
			US-PATENT-APPL-SN-203177				US-PATENT-APPL-SN-084770				US-PATENT-APPL-SN-917125
N88-25301* #	c 74		NAS 1.71:NPO-17139-1-CU				US-PATENT-CLASS-328-155				US-PATENT-CLASS-126-443
			NASA-CASE-NPO-17139-1-CU				US-PATENT-CLASS-331-17				US-PATENT-CLASS-126-901
			US-PATENT-APPL-SN-154718				US-PATENT-CLASS-331-25				US-PATENT-CLASS-165-41
N88-25302* #	c 74		NAS 1.71:LAR-13387-1				US-PATENT-4,771,250				US-PATENT-CLASS-165-904
			NASA-CASE-LAR-13387-1				NAS 1.71:NPO-17233-1-CU				US-PATENT-4,770,232
			US-PATENT-APPL-SN-154716				NASA-CASE-NPO-17233-1-CU		N89-12551*	c 02	NASA-CASE-LAR-13554-1
N88-25304* #	c 74		NAS 1.71:NPO-17207-1-CU				US-PATENT-APPL-SN-231025				US-PATENT-APPL-SN-929862
			NASA-CASE-NPO-17207-1-CU				NASA-CASE-MSC-20840-1				US-PATENT-CLASS-116-DIG.43
			US-PATENT-APPL-SN-190185				US-PATENT-APPL-SN-943346				US-PATENT-CLASS-116-265
N88-25305* #	c 74		NAS 1.71:NPO-17144-1-CU				US-PATENT-CLASS-165-170				US-PATENT-CLASS-73-147
			NASA-CASE-NPO-17144-1-CU				US-PATENT-CLASS-165-81				US-PATENT-4,774,835
			US-PATENT-APPL-SN-187716				US-PATENT-4,762,173		N89-12621*	c 18	NASA-CASE-MSC-21096-1
N88-26398*	c 18		NASA-CASE-MSC-20985-1				NASA-CASE-GSC-13019-1				US-PATENT-APPL-SN-929865
			US-PATENT-APPL-SN-904134				US-PATENT-APPL-SN-942158				US-PATENT-CLASS-182-103
			US-PATENT-CLASS-104-172.1				US-PATENT-CLASS-122-366				US-PATENT-CLASS-212-225
			US-PATENT-CLASS-104-35				US-PATENT-CLASS-138-38				US-PATENT-CLASS-212-257
			US-PATENT-CLASS-104-49				US-PATENT-CLASS-165-104.26				US-PATENT-CLASS-414-689

			US-PATENT-CLASS-414-718				US-PATENT-APPL-SN-904132				US-PATENT-CLASS-239-2.1
			US-PATENT-CLASS-414-735				US-PATENT-CLASS-244-35-F				US-PATENT-4,781,326
			US-PATENT-4,772,175				US-PATENT-CLASS-416-223-R	N89-25266*	c 18		NASA-CASE-ARC-11505-2
N89-12667*	c 23		NASA-CASE-LAR-13444-2.CU				US-PATENT-4,776,531				US-PATENT-APPL-SN-159072
			US-PATENT-APPL-SN-000692	N89-14303*	c 26		NASA-CASE-LEW-14134-2				US-PATENT-CLASS-244-159
			US-PATENT-CLASS-564-315				US-PATENT-APPL-SN-108331				US-PATENT-CLASS-244-161
			US-PATENT-CLASS-564-323				US-PATENT-CLASS-420-54				US-PATENT-CLASS-285-302
			US-PATENT-CLASS-564-330				US-PATENT-CLASS-420-62				US-PATENT-4,807,834
			US-PATENT-CLASS-564-342				US-PATENT-CLASS-420-79	N89-25279*	c 20		NASA-CASE-MSC-20476-2
			US-PATENT-CLASS-564-344				US-PATENT-CLASS-420-80				US-PATENT-APPL-SN-046341
			US-PATENT-CLASS-564-396				US-PATENT-CLASS-420-81				US-PATENT-CLASS-239-265.17
			US-PATENT-CLASS-564-430				US-PATENT-4,780,276				US-PATENT-CLASS-60-202
			US-PATENT-4,774,359	N89-14337*	c 27		NASA-CASE-LAR-13601-1.CU				US-PATENT-CLASS-60-264
N89-12741*	c 27		NASA-CASE-LAR-13506-1				US-PATENT-APPL-SN-028831				US-PATENT-4,815,279
			US-PATENT-CLASS-528-125				US-PATENT-CLASS-528-125	N89-25334* #	c 27		NAS 1.71:LAR-13925-1
			US-PATENT-CLASS-156-297				US-PATENT-CLASS-528-128				NASA-CASE-LAR-13925-1
			US-PATENT-CLASS-156-299				US-PATENT-4,788,271				US-PATENT-APPL-SN-301925
			US-PATENT-CLASS-428-44	N89-14351*	c 31		NASA-CASE-NPO-17143-1.CU	N89-25363*	c 32		NASA-CASE-LAR-13798-1
			US-PATENT-CLASS-428-47				US-PATENT-APPL-SN-105847				US-PATENT-APPL-SN-118995
			US-PATENT-CLASS-428-58				US-PATENT-CLASS-62-467				US-PATENT-CLASS-343-DIG.2
			US-PATENT-CLASS-428-71				US-PATENT-CLASS-62-514-JT				US-PATENT-CLASS-343-880
			US-PATENT-CLASS-428-76				US-PATENT-4,779,428				US-PATENT-CLASS-343-915
			US-PATENT-4,774,118	N89-14374*	c 32		NASA-CASE-GSC-12892-1				US-PATENT-4,811,033
N89-12785*	c 31		NASA-CASE-NPO-17085-1.CU				US-PATENT-APPL-SN-655606	N89-25689*	c 74		NASA-CASE-MFS-29348-1
			US-PATENT-APPL-SN-087282				US-PATENT-CLASS-455-115				US-PATENT-APPL-SN-156518
			US-PATENT-CLASS-165-61				US-PATENT-CLASS-455-117				US-PATENT-CLASS-350-96.21
			US-PATENT-CLASS-165-96				US-PATENT-CLASS-455-67				US-PATENT-CLASS-350-96.25
			US-PATENT-CLASS-62-467				US-PATENT-CLASS-455-98				US-PATENT-4,798,433
			US-PATENT-CLASS-62-514-R				US-PATENT-4,777,656	N89-26202*	c 35		NASA-CASE-MFS-28242-1
			US-PATENT-4,771,823	N89-14384*	c 33		NASA-CASE-ARC-11536-1				US-PATENT-APPL-SN-149822
N89-12786*	c 31		NASA-CASE-LAR-13438-1				US-PATENT-APPL-SN-725714				US-PATENT-CLASS-356-347
			US-PATENT-APPL-SN-022298				US-PATENT-CLASS-342-195				US-PATENT-CLASS-356-361
			US-PATENT-CLASS-428-182				US-PATENT-CLASS-356-28.5				US-PATENT-4,810,094
			US-PATENT-CLASS-52-814				US-PATENT-CLASS-364-900	N89-26400*	c 60		NASA-CASE-NPO-16461-1.CU
			US-PATENT-CLASS-52-821				US-PATENT-4,779,222				US-PATENT-APPL-SN-815103
N89-12841*	c 35		US-PATENT-4,769,968	N89-14385*	c 33		NASA-CASE-LAR-13552-1.CU				US-PATENT-CLASS-364-131
			NASA-CASE-LAR-13569-1				US-PATENT-APPL-SN-933941				US-PATENT-CLASS-382.41
			US-PATENT-APPL-SN-010943				US-PATENT-CLASS-324-77-E				US-PATENT-CLASS-382-42

N89-28816* #	c 36	NASA-CASE-NPO-17596-1-CU US-PATENT-APPL-SN-361531 NAS 1.71: LAR-13772-1 NASA-CASE-LAR-13772-1 US-PATENT-APPL-SN-359460 NAS 1.71: LAR-14203-1 NASA-CASE-LAR-14203-1 US-PATENT-APPL-SN-359459 NASA-CASE-MFS-28253-1 US-PATENT-APPL-SN-165943 US-PATENT-CLASS-33-536 US-PATENT-4,809,441 NAS 1.71: MFS-28345-2 NASA-CASE-MFS-28345-2 US-PATENT-APPL-SN-358028 NAS 1.71: NPO-17785-1-CU NASA-CASE-NPO-17785-1-CU US-PATENT-APPL-SN-353411 NASA-CASE-NPO-16789-1-CU US-PATENT-APPL-SN-154713 US-PATENT-CLASS-250-252 US-PATENT-CLASS-250-397 US-PATENT-4,818,868 NASA-CASE-LEW-14392-2 US-PATENT-APPL-SN-038560 US-PATENT-APPL-SN-886149 US-PATENT-CLASS-428-288 US-PATENT-CLASS-428-367 US-PATENT-CLASS-428-375 US-PATENT-CLASS-428-390 US-PATENT-CLASS-428-408 US-PATENT-CLASS-428-698 US-PATENT-4,781,993 NASA-CASE-MSC-21169-1 US-PATENT-APPL-SN-044183 US-PATENT-CLASS-264-DIG-59 US-PATENT-CLASS-264-236 US-PATENT-CLASS-264-257 US-PATENT-CLASS-264-347 US-PATENT-CLASS-264-40.1 US-PATENT-CLASS-264-40.5 US-PATENT-CLASS-264-40.6 US-PATENT-4,810,438 NAS 1.71: NPO-17630-1-CU NASA-CASE-NPO-17630-1-CU US-PATENT-APPL-SN-304149 NASA-CASE-GSC-13112-1 US-PATENT-APPL-SN-205771 US-PATENT-CLASS-206-0.7 US-PATENT-CLASS-220-5A US-PATENT-CLASS-220-901 US-PATENT-CLASS-62-45 US-PATENT-CLASS-62-48 US-PATENT-4,821,907 NAS 1.71: NPO-17393-1-CU NASA-CASE-NPO-17393-1-CU US-PATENT-APPL-SN-279676 NASA-CASE-NPO-16888-1-CU US-PATENT-APPL-SN-133412 US-PATENT-CLASS-324-117 US-PATENT-CLASS-324-127 US-PATENT-CLASS-330-8 US-PATENT-4,823,074 NAS 1.71: NPO-17275-1-CU NASA-CASE-NPO-17275-1-CU US-PATENT-APPL-SN-292047 NASA-CASE-KSC-11322-1 US-PATENT-APPL-SN-894541 US-PATENT-CLASS-2-201 US-PATENT-CLASS-24-68B US-PATENT-CLASS-381-183 US-PATENT-CLASS-381-187 US-PATENT-4,783,822 NAS 1.71: NPO-17524-1-CU NASA-CASE-NPO-17524-1-CU US-PATENT-APPL-SN-366957 NAS 1.71: LEW-14880-1 NASA-CASE-LEW-14880-1 US-PATENT-APPL-SN-376738 NAS 1.71: MFS-28368-1 NASA-CASE-MFS-28368-1 US-PATENT-APPL-SN-386174 NAS 1.71: MSC-21327-1 NASA-CASE-MSC-21327-1 US-PATENT-APPL-SN-292121 NASA-CASE-LEW-13609-1 US-PATENT-APPL-SN-452465 US-PATENT-CLASS-165-156 US-PATENT-CLASS-165-81 US-PATENT-CLASS-165-83 US-PATENT-CLASS-431-352 US-PATENT-CLASS-60-730 US-PATENT-CLASS-60-732 US-PATENT-4,819,438 NASA-CASE-NPO-16995-1-CU US-PATENT-APPL-SN-924297	N90-15094* #	c 05	US-PATENT-CLASS-73-505 US-PATENT-CLASS-73-571 US-PATENT-4,800,756 NAS 1.71: LAR-13870-1 NASA-CASE-LAR-13870-1 US-PATENT-APPL-SN-429516 NAS 1.71: LAR-14194-1 NASA-CASE-LAR-14194-1 US-PATENT-APPL-SN-344877 NAS 1.71: LAR-13996-1-SB NASA-CASE-LAR-13996-1-SB US-PATENT-APPL-SN-426345 NAS 1.71: LAR-14162-1 NASA-CASE-LAR-14162-1 US-PATENT-APPL-SN-410572 NAS 1.71: LAR-14001-1 NASA-CASE-LAR-14001-1 US-PATENT-APPL-SN-433812 NAS 1.71: NPO-17548-1-CU NASA-CASE-NPO-17548-1-CU US-PATENT-APPL-SN-404293 NAS 1.71: MSC-21387-1 NASA-CASE-MSC-21387-1 US-PATENT-APPL-SN-323748 NAS 1.71: LAR-14156-1 NASA-CASE-LAR-14156-1 US-PATENT-APPL-SN-433804 NASA-CASE-ARC-11635-1 US-PATENT-APPL-SN-110388 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-244-159 US-PATENT-4,842,224 NAS 1.71: MSC-21487-1 NASA-CASE-MSC-21487-1 US-PATENT-APPL-SN-429739 NASA-CASE-GSC-13008-2 US-PATENT-APPL-SN-163928 US-PATENT-CLASS-521-145 US-PATENT-CLASS-521-178 US-PATENT-CLASS-521-189 US-PATENT-CLASS-521-82 US-PATENT-CLASS-521-97 US-PATENT-CLASS-521-98 US-PATENT-4,843,123 NASA-CASE-LAR-13821-1 US-PATENT-APPL-SN-071686 US-PATENT-CLASS-524-233 US-PATENT-CLASS-524-366 US-PATENT-CLASS-524-378 US-PATENT-CLASS-524-600 US-PATENT-CLASS-524-607 US-PATENT-CLASS-528-125 US-PATENT-CLASS-528-353 US-PATENT-4,837,300 NAS 1.71: NPO-17564-1-CU NASA-CASE-NPO-17564-1-CU US-PATENT-APPL-SN-414811 NASA-CASE-NPO-17325-1-CU US-PATENT-APPL-SN-184235 US-PATENT-CLASS-324-78D US-PATENT-CLASS-324-78Z US-PATENT-4,843,328 NAS 1.71: NPO-17621-1-CU NASA-CASE-NPO-17621-1-CU US-PATENT-APPL-SN-414820 NAS 1.71: NPO-17786-1-CU NASA-CASE-NPO-17786-1-CU US-PATENT-APPL-SN-414812 NASA-CASE-LAR-13710-1 US-PATENT-APPL-SN-210487 US-PATENT-CLASS-73-147 US-PATENT-CLASS-73-862.61 US-PATENT-4,836,035 NASA-CASE-NPO-16617-2-CU US-PATENT-APPL-SN-125676 US-PATENT-CLASS-357-13 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-4 US-PATENT-CLASS-357-61 US-PATENT-4,843,439 NASA-CASE-NPO-17824-1-CU US-PATENT-APPL-SN-159613 US-PATENT-CLASS-356-43 US-PATENT-CLASS-374-124 US-PATENT-CLASS-374-126 US-PATENT-CLASS-374-130 US-PATENT-4,840,496 NASA-CASE-NPO-17354-1-CU US-PATENT-APPL-SN-184236 US-PATENT-CLASS-280-677 US-PATENT-CLASS-280-682 US-PATENT-4,840,394 NASA-CASE-MFS-28192-1 US-PATENT-APPL-SN-093417 US-PATENT-CLASS-24-635 US-PATENT-CLASS-292-27	N90-17454* #	c 76	US-PATENT-CLASS-292-34 US-PATENT-CLASS-403-322 US-PATENT-CLASS-403-325 US-PATENT-CLASS-403-328 US-PATENT-4,836,707 NAS 1.71: LEW-14676-2 NASA-CASE-LEW-14676-2 US-PATENT-APPL-SN-458467 NAS 1.71: NPO-17812-1-CU NASA-CASE-NPO-17812-1-CU US-PATENT-APPL-SN-387928 NAS 1.71: MSC-21560-1 NASA-CASE-MSC-21560-1 US-PATENT-APPL-SN-317931 NASA-CASE-MSC-21356-1 US-PATENT-APPL-SN-165956 US-PATENT-CLASS-114-112 US-PATENT-CLASS-114-201R US-PATENT-CLASS-244-129.5 US-PATENT-CLASS-244-158R US-PATENT-CLASS-49-253 US-PATENT-4,842,223 NASA-CASE-LAR-13773-1 US-PATENT-APPL-SN-165946 US-PATENT-CLASS-60-204 US-PATENT-CLASS-60-259 US-PATENT-CLASS-60-260 US-PATENT-4,831,818 NASA-CASE-LEW-14346-1 US-PATENT-APPL-SN-924470 US-PATENT-CLASS-528-188 US-PATENT-CLASS-528-229 US-PATENT-CLASS-528-352 US-PATENT-CLASS-528-353 US-PATENT-4,845,167 NASA-CASE-NPO-16901-1-CU US-PATENT-APPL-SN-921574 US-PATENT-CLASS-264-114 US-PATENT-CLASS-264-311 US-PATENT-CLASS-425-425 US-PATENT-CLASS-425-435 US-PATENT-CLASS-425-73 US-PATENT-CLASS-425-75 US-PATENT-4,839,121 NASA-CASE-LAR-13638-1 US-PATENT-APPL-SN-223124 US-PATENT-CLASS-156-344 US-PATENT-CLASS-244-133 US-PATENT-CLASS-427-272 US-PATENT-4,851,071 NASA-CASE-MFS-29149-1 US-PATENT-APPL-SN-073541 US-PATENT-CLASS-323-354 US-PATENT-CLASS-324-62 US-PATENT-CLASS-364-481 US-PATENT-CLASS-364-482 US-PATENT-4,849,903 NASA-CASE-LAR-13952-1-SB US-PATENT-APPL-SN-203178 US-PATENT-CLASS-73-432.1 US-PATENT-4,848,153 NASA-CASE-MFS-29260-1 US-PATENT-APPL-SN-156059 US-PATENT-CLASS-219-72 US-PATENT-CLASS-219-74 US-PATENT-4,839,489 NASA-CASE-NPO-16949-1-CU US-PATENT-APPL-SN-927987 US-PATENT-CLASS-370-16 US-PATENT-CLASS-371-8 US-PATENT-4,847,837 NASA-CASE-NPO-17259-1-CU US-PATENT-APPL-SN-184234 US-PATENT-CLASS-148-13 US-PATENT-CLASS-148-13.1 US-PATENT-CLASS-428-641 US-PATENT-CLASS-437-903 US-PATENT-4,849,033 NASA-CASE-LAR-13777-1 US-PATENT-APPL-SN-210480 US-PATENT-CLASS-244-130 US-PATENT-CLASS-244-55 US-PATENT-CLASS-244-55 US-PATENT-4,867,394 NASA-CASE-LAR-14031-1 US-PATENT-APPL-SN-252081 US-PATENT-CLASS-244-130 US-PATENT-CLASS-244-137.4 US-PATENT-4,863,118 NASA-CASE-LAR-13734-1-CU US-PATENT-APPL-SN-082766 US-PATENT-CLASS-364-427 US-PATENT-CLASS-73-178-T US-PATENT-4,843,554 NASA-CASE-MSC-21386-1 US-PATENT-APPL-SN-292123
--------------	------	---	--------------	------	--	--------------	------	---

			US-PATENT-CLASS-166-343	US-PATENT-CLASS-428-408	N90-21519*	c 52	NASA-CASE-LAR-13901-1-NP
			US-PATENT-CLASS-244-159	US-PATENT-CLASS-530-362			US-PATENT-APPL-SN-118993
			US-PATENT-CLASS-244-161	US-PATENT-CLASS-530-363			US-PATENT-APPL-SN-929869
			US-PATENT-CLASS-405-188	US-PATENT-CLASS-530-364			US-PATENT-CLASS-128-661.03
			US-PATENT-4,858,857	US-PATENT-CLASS-530-387			US-PATENT-4,852,578
N90-20133*	c 23		NASA-CASE-ARC-11425-4	US-PATENT-CLASS-530-422	N90-21525*	c 60	NASA-CASE-NPO-17205-1-CU
			US-PATENT-APPL-SN-054985	US-PATENT-4,833,233			US-PATENT-APPL-SN-143434
			US-PATENT-APPL-SN-493864	N90-20896*	c 76		US-PATENT-CLASS-377-111
			US-PATENT-APPL-SN-522629	US-PATENT-APPL-SN-441896			US-PATENT-CLASS-377-114
			US-PATENT-APPL-SN-641152	US-PATENT-APPL-SN-811309			US-PATENT-CLASS-377-116
			US-PATENT-CLASS-558-190	US-PATENT-CLASS-156-616.4			US-PATENT-CLASS-377-123
			US-PATENT-4,864,050	US-PATENT-CLASS-156-616.41			US-PATENT-CLASS-377-126
N90-20154*	c 25		NASA-CASE-LAR-13542-2-SB	US-PATENT-CLASS-422-249			US-PATENT-CLASS-377-69
			US-PATENT-APPL-SN-145719	US-PATENT-4,863,553			US-PATENT-CLASS-377-79
			US-PATENT-CLASS-204-157.51	N90-21061*	c 17		US-PATENT-4,845,728
			US-PATENT-CLASS-372-59	US-PATENT-APPL-SN-195226			NASA-CASE-NPO-16859-1-CU
			US-PATENT-CLASS-502-339	US-PATENT-CLASS-371-041	N90-21527*	c 60	US-PATENT-APPL-SN-113956
			US-PATENT-CLASS-502-352	US-PATENT-CLASS-371-043			US-PATENT-CLASS-364-229.4
			US-PATENT-CLASS-502-38	US-PATENT-CLASS-371-37.4			US-PATENT-CLASS-364-267.9
			US-PATENT-CLASS-502-53	US-PATENT-CLASS-371-38.1			US-PATENT-CLASS-364-940.67
			US-PATENT-4,839,330	US-PATENT-4,907,233			US-PATENT-CLASS-364-942.51
N90-20180*	c 25		NASA-CASE-LAR-13741-1-SB	N90-21118*	c 23		US-PATENT-CLASS-364-944
			US-PATENT-APPL-SN-090874	US-PATENT-APPL-SN-221386			US-PATENT-CLASS-364-975.5
			US-PATENT-CLASS-502-325	US-PATENT-CLASS-528-262			US-PATENT-CLASS-371-11.3
			US-PATENT-CLASS-502-339	US-PATENT-CLASS-528-322			US-PATENT-4,868,818
			US-PATENT-CLASS-502-344	US-PATENT-CLASS-548-400	N90-21822*	c 24	NASA-CASE-LAR-12887-3
			US-PATENT-4,855,274	US-PATENT-CLASS-548-524			US-PATENT-APPL-SN-323236
N90-20236*	c 29		NASA-CASE-KSC-11387-1	US-PATENT-4,851,544			US-PATENT-CLASS-181-286
			US-PATENT-APPL-SN-232734	N90-21170*	c 26		US-PATENT-CLASS-181-290
			US-PATENT-CLASS-141-45	NASA-CASE-LAR-13817-1			US-PATENT-CLASS-89-36.02
			US-PATENT-CLASS-55-160	US-PATENT-APPL-SN-210486			US-PATENT-4,911,062
			US-PATENT-CLASS-55-182	US-PATENT-CLASS-073-801	N90-21951*	c 33	NASA-CASE-NPO-17430-1-CU
			US-PATENT-CLASS-55-205	US-PATENT-CLASS-324-209			US-PATENT-APPL-SN-332677
			US-PATENT-4,848,987	US-PATENT-CLASS-324-226			US-PATENT-CLASS-318-434
N90-20254*	c 31		NASA-CASE-MS-C-21253-1	US-PATENT-CLASS-324-227			US-PATENT-CLASS-318-561
			US-PATENT-APPL-SN-251439	US-PATENT-CLASS-324-235			US-PATENT-CLASS-318-615
			US-PATENT-CLASS-137-154	US-PATENT-CLASS-324-239			US-PATENT-CLASS-318-618
			US-PATENT-CLASS-141-93	US-PATENT-4,912,411			US-PATENT-CLASS-388-821
			US-PATENT-CLASS-239-543	N90-21177*	c 27		US-PATENT-4,912,386
			US-PATENT-CLASS-55-159	NASA-CASE-ARC-11649-2-SB			NASA-CASE-MS-C-21271-1
			US-PATENT-CLASS-55-46	US-PATENT-APPL-SN-231027	N90-21999*	c 34	US-PATENT-APPL-SN-252077
			US-PATENT-4,846,854	US-PATENT-CLASS-501-88			US-PATENT-CLASS-165-32
N90-20280*	c 32		NASA-CASE-MS-C-18808-1	US-PATENT-CLASS-501-91			US-PATENT-CLASS-165-46
			US-PATENT-APPL-SN-125677	US-PATENT-CLASS-501-92			US-PATENT-CLASS-165-78
			US-PATENT-CLASS-342-105	US-PATENT-CLASS-528-10			US-PATENT-CLASS-165-96
			US-PATENT-CLASS-342-114	US-PATENT-CLASS-528-30			US-PATENT-CLASS-165-96
			US-PATENT-CLASS-342-195	US-PATENT-CLASS-528-4	N90-22023*	c 35	US-PATENT-4,909,313
			US-PATENT-4,860,014	US-PATENT-CLASS-556-402			NASA-CASE-KSC-11386-1
N90-20282*	c 33		NASA-CASE-GSC-12442-2	US-PATENT-4,851,491			US-PATENT-APPL-SN-264107
			US-PATENT-APPL-SN-675471	N90-21198*	c 27		US-PATENT-CLASS-324-329
			US-PATENT-CLASS-357-22	NASA-CASE-LAR-13448-1			US-PATENT-4,912,414
			US-PATENT-CLASS-357-55	US-PATENT-APPL-SN-838654	N90-22024*	c 35	NASA-CASE-LEW-14844-1
			US-PATENT-CLASS-357-68	US-PATENT-CLASS-264-022			US-PATENT-APPL-SN-326766
			US-PATENT-CLASS-357-76	US-PATENT-CLASS-522-162			US-PATENT-CLASS-210-512.1
			US-PATENT-CLASS-357-81	US-PATENT-CLASS-522-165			US-PATENT-CLASS-210-97
			US-PATENT-4,843,440	US-PATENT-CLASS-528-176			US-PATENT-CLASS-55-160
N90-20320*	c 33		NASA-CASE-LAR-13273-2	US-PATENT-CLASS-528-308			US-PATENT-CLASS-55-203
			US-PATENT-APPL-SN-625436	US-PATENT-4,910,233	N90-21209*	c 29	US-PATENT-CLASS-55-204
			US-PATENT-APPL-SN-862942	NASA-CASE-MFS-26047-1			US-PATENT-4,911,738
			US-PATENT-CLASS-323-903	US-PATENT-APPL-SN-244369			NASA-CASE-LAR-13816-1
			US-PATENT-CLASS-361-65	US-PATENT-CLASS-210-205	N90-22025*	c 35	US-PATENT-APPL-SN-165945
			US-PATENT-CLASS-361-79	US-PATENT-CLASS-210-247			US-PATENT-CLASS-422-111
			US-PATENT-CLASS-55-105	US-PATENT-CLASS-210-257.1			US-PATENT-CLASS-422-126
			US-PATENT-CLASS-55-139	US-PATENT-CLASS-210-321.6			US-PATENT-CLASS-422-62
			US-PATENT-4,605,424	US-PATENT-CLASS-210-340			US-PATENT-CLASS-422-98
			US-PATENT-4,860,149	US-PATENT-CLASS-210-94			US-PATENT-CLASS-436-137
N90-20323*	c 34		NASA-CASE-LAR-13761-1	US-PATENT-CLASS-210-93			US-PATENT-CLASS-436-143
			US-PATENT-APPL-SN-237036	N90-21215*	c 31		US-PATENT-CLASS-436-55
			US-PATENT-CLASS-165-104	NASA-CASE-NPO-17278-1-CU			US-PATENT-4,911,890
			US-PATENT-CLASS-165-133	US-PATENT-APPL-SN-172100	N90-22042*	c 37	NASA-CASE-LAR-13926-1
			US-PATENT-CLASS-165-180	US-PATENT-CLASS-181-0.5			US-PATENT-APPL-SN-250469
			US-PATENT-CLASS-165-41	US-PATENT-CLASS-361-383			US-PATENT-CLASS-123-193P
			US-PATENT-CLASS-165-905	US-PATENT-CLASS-361-384			US-PATENT-CLASS-29-888.046
			US-PATENT-4,838,346	US-PATENT-CLASS-361-385			US-PATENT-CLASS-92-212
N90-20351*	c 35		NASA-CASE-NPO-16878-1-CU	US-PATENT-CLASS-62-467			US-PATENT-CLASS-92-213
			US-PATENT-APPL-SN-084062	US-PATENT-4,858,717	N90-21216*	c 31	US-PATENT-CLASS-92-222
			US-PATENT-CLASS-219-121.28	NASA-CASE-LAR-14050-1			US-PATENT-CLASS-92-248
			US-PATENT-CLASS-250-310	US-PATENT-APPL-SN-067846			US-PATENT-4,909,133
			US-PATENT-CLASS-250-396-ML	US-PATENT-APPL-SN-237657			NASA-CASE-KSC-11392-1
			US-PATENT-CLASS-250-396-R	US-PATENT-CLASS-164-113	N90-22383*	c 74	US-PATENT-APPL-SN-262851
			US-PATENT-4,847,502	US-PATENT-CLASS-164-284			US-PATENT-CLASS-250-229
N90-20403*	c 37		NASA-CASE-MS-C-21365-1	US-PATENT-CLASS-249-127			US-PATENT-CLASS-350-356
			US-PATENT-APPL-SN-221388	US-PATENT-4,865,114			US-PATENT-4,910,396
			US-PATENT-CLASS-294-106	N90-21358*	c 35		INT-PATENT-CLASS-B64G-1/14
			US-PATENT-CLASS-294-86.4	NASA-CASE-NPO-17235-1-CU			NASA-CASE-LAR-13486-1
			US-PATENT-CLASS-901-38	US-PATENT-APPL-SN-116811			US-Patent-4,884,770
			US-PATENT-CLASS-901-39	US-PATENT-CLASS-357-29	N90-22584*	c 16	US-PATENT-APPL-SN-076955
			US-PATENT-4,858,979	US-PATENT-CLASS-357-30			US-PATENT-CLASS-244-158R
N90-20409*	c 37		NASA-CASE-LAR-13696-1	US-PATENT-CLASS-357-4			US-PATENT-CLASS-244-160
			US-PATENT-APPL-SN-267146	US-PATENT-CLASS-357-58			US-PATENT-CLASS-244-161
			US-PATENT-CLASS-73-831	US-PATENT-CLASS-357-90			US-PATENT-CLASS-244-172
			US-PATENT-CLASS-73-860	US-PATENT-4,860,074	N90-21390*	c 37	INT-PATENT-CLASS-H01J-25/34
			US-PATENT-4,864,865	NASA-CASE-MS-C-21436-1			NASA-CASE-LEW-14520-1
N90-20616*	c 52		NASA-CASE-MFS-28234-1	US-PATENT-APPL-SN-313839			US-Patent-4,890,036
			US-PATENT-APPL-SN-087281	US-PATENT-CLASS-102-378	N90-22724*	c 33	US-PATENT-APPL-SN-130058
			US-PATENT-CLASS-427-2	US-PATENT-CLASS-194-82.26			US-PATENT-CLASS-315-3
				US-PATENT-CLASS-194-82.29			US-PATENT-CLASS-315-3.5
				US-PATENT-CLASS-89-1.14			
				US-PATENT-CLASS-89-1.57			
				US-PATENT-4,864,910			

N90-22769*	c 35	.....	US-PATENT-CLASS-331-82 INT-PATENT-CLASS-B64D-1/00 NASA-CASE-NPO-17390-1-CU US-Patent-4,886,222 US-PATENT-APPL-SN-205899 US-PATENT-CLASS-244-1R US-PATENT-CLASS-244-138A US-PATENT-CLASS-358-109	N90-23544*	c 27	.....	US-PATENT-CLASS-165-41 US-PATENT-CLASS-165-905 US-PATENT-4,883,116 INT-PATENT-CLASS-G01N-27/72 INT-PATENT-CLASS-G01R-27/00 INT-PATENT-CLASS-G01R-33/12 NASA-CASE-LAR-13465-1 US-PATENT-APPL-SN-133413 US-PATENT-CLASS-264-40.1 US-PATENT-CLASS-324-234 US-PATENT-CLASS-324-236 US-PATENT-CLASS-526-60 US-PATENT-4,891,591	N90-23713*	c 35	.....	NASA-CASE-LAR-14056-1 US-PATENT-APPL-SN-010949 US-PATENT-APPL-SN-251073 US-PATENT-CLASS-364-578 US-PATENT-CLASS-364-900 US-PATENT-CLASS-364-924.1 US-PATENT-CLASS-364-925.1 US-PATENT-CLASS-364-933.8 US-PATENT-CLASS-364-934 US-PATENT-4,918,652
N90-22770*	c 35	.....	INT-PATENT-CLASS-H04N-7/18 NASA-CASE-LAR-13740-1 US-Patent-4,885,633 US-PATENT-APPL-SN-205900 US-PATENT-CLASS-250-459.1 US-PATENT-CLASS-250-461.1 US-PATENT-CLASS-358-113 US-PATENT-CLASS-358-93 US-PATENT-CLASS-374-162	N90-23545*	c 27	.....	US-PATENT-APPL-SN-087375 US-PATENT-APPL-SN-328392 US-PATENT-CLASS-528-125 US-PATENT-CLASS-528-126 US-PATENT-CLASS-528-128 US-PATENT-CLASS-528-171-175 US-PATENT-CLASS-528-212 US-PATENT-CLASS-548-520 US-PATENT-4,889,912	N90-23742*	c 37	.....	INT-PATENT-CLASS-F03D-9/00 NASA-CASE-LAR-13434-1 US-PATENT-APPL-SN-246594 US-PATENT-CLASS-290-44 US-PATENT-CLASS-290-55 US-PATENT-CLASS-416-9 US-PATENT-4,894,554
N90-23242*	c 76	.....	INT-PATENT-CLASS-C30B-7/02 NASA-CASE-MFS-28206-1-SB US-Patent-4,886,646 US-PATENT-APPL-SN-172101 US-PATENT-CLASS-156-DIG.62 US-PATENT-CLASS-156-DIG.72 US-PATENT-CLASS-156-600 US-PATENT-CLASS-156-608 US-PATENT-CLASS-422-245	N90-23546*	c 27	.....	NASA-CASE-LAR-13902-1 US-PATENT-APPL-SN-239259 US-PATENT-CLASS-528-125 US-PATENT-CLASS-528-126 US-PATENT-CLASS-528-128 US-PATENT-CLASS-528-172 US-PATENT-CLASS-528-185 US-PATENT-CLASS-528-188 US-PATENT-CLASS-528-353 US-PATENT-4,895,972	N90-23751*	c 37	.....	INT-PATENT-CLASS-B64D-33/04 INT-PATENT-CLASS-F16J-15/46 NASA-CASE-LEW-14695-1 US-PATENT-APPL-SN-292146 US-PATENT-CLASS-239-265.11 US-PATENT-CLASS-277-158 US-PATENT-CLASS-277-34 US-PATENT-4,917,302
N90-23390*	c 05	.....	INT-PATENT-CLASS-B64C-9/02 INT-PATENT-CLASS-B64C-9/08 NASA-CASE-LAR-13983-1 US-PATENT-APPL-SN-192563 US-PATENT-CLASS-244-45A US-PATENT-CLASS-244-46 US-PATENT-CLASS-244-75R US-PATENT-CLASS-244-90R US-PATENT-4,917,333	N90-23566*	c 27	.....	INT-PATENT-CLASS-B29B-33/02 NASA-CASE-MSC-20782-1 US-PATENT-APPL-SN-213392 US-PATENT-CLASS-264-11 US-PATENT-CLASS-264-28 US-PATENT-CLASS-264-43 US-PATENT-CLASS-264-6 US-PATENT-4,919,852	N90-23756*	c 38	.....	INT-PATENT-CLASS-G01B-15/06 NASA-CASE-LAR-13724-1 US-PATENT-APPL-SN-125678 US-PATENT-CLASS-378-51 US-PATENT-CLASS-378-58 US-PATENT-4,899,356
N90-23415*	c 09	.....	INT-PATENT-CLASS-C21D-1/09 NASA-CASE-MFS-28281-1 US-PATENT-APPL-SN-205898 US-PATENT-CLASS-148-149 US-PATENT-CLASS-148-4 US-PATENT-CLASS-148-902 US-PATENT-CLASS-148-903 US-PATENT-4,902,354	N90-23586*	c 31	.....	INT-PATENT-CLASS-B23K-9/16 NASA-CASE-MFS-29489-1 US-PATENT-APPL-SN-279625 US-PATENT-CLASS-219-136 US-PATENT-CLASS-219-75 US-PATENT-4,879,446	N90-24150*	c 76	.....	INT-PATENT-CLASS-G01N-21/64 INT-PATENT-CLASS-G01N-21/84 NASA-CASE-LAR-13963-1 US-PATENT-APPL-SN-232735 US-PATENT-CLASS-356-73 US-PATENT-CLASS-356-73.1 US-PATENT-4,890,915
N90-23475*	c 23	.....	INT-PATENT-CLASS-C07S-9/40 NASA-CASE-ARC-11425-3 US-PATENT-APPL-SN-054982 US-PATENT-APPL-SN-493864 US-PATENT-APPL-SN-522629 US-PATENT-APPL-SN-641152 US-PATENT-CLASS-558-193 US-PATENT-4,886,896	N90-23587*	c 31	.....	NASA-CASE-NPO-17301-1-CU US-PATENT-APPL-SN-337767 US-PATENT-CLASS-122-366 US-PATENT-CLASS-165-104.26 US-PATENT-CLASS-165-41 US-PATENT-CLASS-222-187 US-PATENT-CLASS-239-145 US-PATENT-CLASS-417-53 US-PATENT-CLASS-417-572 US-PATENT-4,877,082	N90-24168*	c 76	.....	INT-PATENT-CLASS-B32B-15/08 INT-PATENT-CLASS-B32B-7/02 NASA-CASE-LAR-13678-1 US-PATENT-APPL-SN-176547 US-PATENT-CLASS-340-692 US-PATENT-CLASS-428-216 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-901 US-PATENT-4,917,940
N90-23480*	c 24	.....	NASA-CASE-MFS-29241-1 US-PATENT-APPL-SN-252078 US-PATENT-CLASS-244-158A US-PATENT-CLASS-428-607 US-PATENT-CLASS-428-623 US-PATENT-CLASS-428-627 US-PATENT-CLASS-428-632 US-PATENT-CLASS-428-666 US-PATENT-CLASS-428-680 US-PATENT-4,877,689	N90-23635*	c 33	.....	INT-PATENT-CLASS-H03B-5/12 NASA-CASE-GSC-13173-1 US-PATENT-APPL-SN-292037 US-PATENT-CLASS-331-116FE US-PATENT-CLASS-331-117FE US-PATENT-4,873,498	N90-24169*	c 76	.....	NASA-CASE-MFS-28182-1 US-PATENT-APPL-SN-161681 US-PATENT-CLASS-156-DIG.113 US-PATENT-CLASS-156-DIG.62 US-PATENT-CLASS-156-600 US-PATENT-CLASS-156-601 US-PATENT-CLASS-156-607 US-PATENT-CLASS-422-245 US-PATENT-CLASS-422-50 US-PATENT-4,919,899
N90-23493*	c 24	.....	NASA-CASE-LEW-14719-1 US-PATENT-APPL-SN-326757 US-PATENT-CLASS-419-24 US-PATENT-CLASS-419-36 US-PATENT-CLASS-419-37 US-PATENT-CLASS-419-8 US-PATENT-CLASS-428-551 US-PATENT-CLASS-428-552 US-PATENT-CLASS-75-228 US-PATENT-4,904,538	N90-23636*	c 33	.....	INT-PATENT-CLASS-G06F-1/02 NASA-CASE-NPO-17241-1-CU US-PATENT-APPL-SN-113954 US-PATENT-CLASS-364-717 US-PATENT-CLASS-364-746.1 US-PATENT-4,890,252	N90-25196*	c 24	.....	NASA-CASE-LAR-13562-1 US-PATENT-APPL-SN-921572 US-PATENT-CLASS-138-141 US-PATENT-CLASS-138-149 US-PATENT-CLASS-138-153 US-PATENT-CLASS-428-35.9 US-PATENT-CLASS-428-367 US-PATENT-CLASS-428-376 US-PATENT-CLASS-428-379 US-PATENT-4,923,751
N90-23497*	c 25	.....	NASA-CASE-LEW-14345-2 US-PATENT-APPL-SN-159071 US-PATENT-APPL-SN-924474 US-PATENT-CLASS-260-386 US-PATENT-CLASS-260-395 US-PATENT-CLASS-549-241 US-PATENT-CLASS-562-413 US-PATENT-CLASS-562-415 US-PATENT-CLASS-562-417 US-PATENT-4,885,116	N90-23700*	c 34	.....	INT-PATENT-CLASS-B29B-9/10 NASA-CASE-NPO-17203-1-CU US-PATENT-APPL-SN-250195 US-PATENT-CLASS-264-4 US-PATENT-CLASS-425-5 US-PATENT-CLASS-425-6 US-PATENT-CLASS-425-804 US-PATENT-4,902,450	N90-25197*	c 24	.....	NASA-CASE-LAR-13225-1 US-PATENT-APPL-SN-248018 US-PATENT-CLASS-156-153 US-PATENT-CLASS-156-249 US-PATENT-CLASS-156-289 US-PATENT-CLASS-156-344 US-PATENT-CLASS-427-272 US-PATENT-CLASS-427-282 US-PATENT-CLASS-427-290 US-PATENT-4,923,545
N90-23517*	c 25	.....	NASA-CASE-LAR-14155-1-SB US-PATENT-APPL-SN-298150 US-PATENT-CLASS-502-217 US-PATENT-CLASS-502-218 US-PATENT-CLASS-502-226 US-PATENT-CLASS-502-239 US-PATENT-CLASS-502-241 US-PATENT-CLASS-502-245 US-PATENT-CLASS-502-324 US-PATENT-4,912,082	N90-23706*	c 35	.....	INT-PATENT-CLASS-A61B-5/00 NASA-CASE-LAR-13775-1 US-PATENT-APPL-SN-248020 US-PATENT-CLASS-128-675 US-PATENT-CLASS-128-748 US-PATENT-CLASS-128-778 US-PATENT-4,873,990	N90-25340*	c 36	.....	INT-PATENT-CLASS-G01P-3/36 NASA-CASE-ARC-11876-1 US-PATENT-APPL-SN-257593 US-PATENT-CLASS-356-28 US-PATENT-CLASS-356-28.5 US-PATENT-4,925,297
N90-23541*	c 27	.....	INT-PATENT-CLASS-F28D-15/02 NASA-CASE-GSC-13199-1 US-PATENT-APPL-SN-304147 US-PATENT-CLASS-122-366 US-PATENT-CLASS-165-104.26	N90-23707*	c 35	.....	INT-PATENT-CLASS-G01M-9/00 NASA-CASE-LAR-13628-1 US-PATENT-APPL-SN-251438 US-PATENT-CLASS-340-825.69 US-PATENT-CLASS-73-147 US-PATENT-4,896,533	N90-25498*	c 54	.....	NASA-CASE-MSC-21366-1 US-PATENT-APPL-SN-213880 US-PATENT-CLASS-428-252 US-PATENT-CLASS-428-290 US-PATENT-CLASS-428-328 US-PATENT-CLASS-428-422 US-PATENT-CLASS-428-447 US-PATENT-CLASS-428-458 US-PATENT-CLASS-428-474.4 US-PATENT-4,923,741
				N90-23712*	c 35	.....	INT-PATENT-CLASS-G01N-3/32 NASA-CASE-LEW-14124-1 US-PATENT-APPL-SN-396263 US-PATENT-CLASS-73-799 US-PATENT-CLASS-73-845 US-PATENT-4,916,954	N90-25583*	c 60	.....	INT-PATENT-CLASS-H02L-9/04 NASA-CASE-NPO-17525-1-CU

			US-PATENT-APPL-SN-279630				NASA-CASE-NPO-17835-1-CU			N91-13767* #	c 39	NAS 1.71:NPO-17914-1-CU	
			US-PATENT-CLASS-380-25				US-PATENT-APPL-SN-524959					NASA-CASE-NPO-17914-1-CU	
			US-PATENT-CLASS-380-45			N90-27594* #	c 89	NAS 1.71:MFS-28013-3				US-PATENT-APPL-SN-575697	
			US-PATENT-CLASS-380-49					NASA-CASE-MFS-28013-3			N91-13802* #	c 44	NAS 1.71:LEW-14731-1
			US-PATENT-4,926,481					US-PATENT-APPL-SN-545089					NASA-CASE-LEW-14731-1
N90-26168* #	c 31	INT-PATENT-CLASS-B23K-9/24				N90-27595* #	c 89	NAS 1.71:MFS-28013-4					US-PATENT-APPL-SN-503486
		NASA-CASE-MFS-29491-1						NASA-CASE-MFS-28013-4			N91-13860* #	c 51	NAS 1.71:MSC-21559-1
		US-PATENT-APPL-SN-279677						US-PATENT-APPL-SN-545008					NASA-CASE-MSC-21559-1
		US-PATENT-CLASS-219-136				N91-13481* #	c 18	NAS 1.71:LAR-13780-1					US-PATENT-APPL-SN-317776
		US-PATENT-CLASS-219-75						NASA-CASE-LAR-13780-1			N91-13865* #	c 52	NAS 1.71:MSC-21675-1
		US-PATENT-4,924,053						US-PATENT-APPL-SN-575737					NASA-CASE-MSC-21675-1
N90-26304* #	c 35	NAS 1.71:MFS-28425-1				N91-13483* #	c 18	NAS 1.71:MSC-21536-1			N91-13879* #	c 54	US-PATENT-APPL-SN-562095
		NASA-CASE-MFS-28425-1						NASA-CASE-MSC-21536-1					NAS 1.71:MSC-21460-1
		US-PATENT-APPL-SN-527462						US-PATENT-APPL-SN-458476					NASA-CASE-MSC-21460-1
N90-26384* #	c 43	NAS 1.71:NPO-17970-1-CU				N91-13500* #	c 24	NAS 1.71:LEW-14999-1					US-PATENT-APPL-SN-587919
		NASA-CASE-NPO-17970-1-CU						NASA-CASE-LEW-14999-1			N91-13888* #	c 60	NAS 1.71:NPO-17997-1-CU
		US-PATENT-APPL-SN-545014						US-PATENT-APPL-SN-560926					NASA-CASE-NPO-17997-1-CU
N90-26518* #	c 60	NAS 1.71:NPO-17939-1-CU				N91-13502* #	c 24	NAS 1.71:LEW-14921-1					US-PATENT-APPL-SN-481013
		NASA-CASE-NPO-17939-1-CU						NASA-CASE-LEW-14921-1			N91-13890* #	c 60	NAS 1.71:MSC-21481-1
		US-PATENT-APPL-SN-543915						US-PATENT-APPL-SN-571059					NASA-CASE-MSC-21481-1
N90-26519* #	c 60	NAS 1.71:NPO-17954-1-CU				N91-13527* #	c 26	NAS 1.71:LAR-14239-1					US-PATENT-APPL-SN-506136
		NASA-CASE-NPO-17954-1-CU						NASA-CASE-LAR-14239-1			N91-13911* #	c 61	NAS 1.71:MSC-21737-1
		US-PATENT-APPL-SN-545019						US-PATENT-APPL-SN-555864					NASA-CASE-MSC-21737-1
N90-26685* #	c 76	NAS 1.71:NPO-17723-1-CU				N91-13558* #	c 27	NAS 1.71:LAR-14271-1-CU					US-PATENT-APPL-SN-587922
		NASA-CASE-NPO-17723-1-CU						NASA-CASE-LAR-14271-1-CU			N91-13944* #	c 63	NAS 1.71:MSC-21381-1
		US-PATENT-APPL-SN-506137						US-PATENT-APPL-SN-567025					NASA-CASE-MSC-21381-1
N90-26861* #	c 18	NAS 1.71:MFS-28421-1				N91-13559* #	c 27	NAS 1.71:LAR-14163-1					US-PATENT-APPL-SN-545235
		NASA-CASE-MFS-28421-1						NASA-CASE-LAR-14163-1			N91-13996* #	c 74	NAS 1.71:LEW-14878-1
		US-PATENT-APPL-SN-481537						US-PATENT-APPL-SN-560717					NASA-CASE-LEW-14878-1
N90-26880* #	c 24	NAS 1.71:NPO-17858-1-CU				N91-13560* #	c 27	NAS 1.71:LAR-14330-1-CU					US-PATENT-APPL-SN-587921
		NASA-CASE-NPO-17858-1-CU						NASA-CASE-LAR-14330-1-CU			N91-13998* #	c 74	NAS 1.71:NPO-17784-1-CU
		US-PATENT-APPL-SN-503487						US-PATENT-APPL-SN-568128					NASA-CASE-NPO-17784-1-CU
N90-26881* #	c 24	NAS 1.71:LAR-14338-1				N91-13561* #	c 27	NAS 1.71:LAR-14351-1					US-PATENT-APPL-SN-568129
		NASA-CASE-LAR-14338-1						NASA-CASE-LAR-14351-1			N91-13999* #	c 74	NAS 1.71:MFS-28295-1
		US-PATENT-APPL-SN-429514						US-PATENT-APPL-SN-589571					NASA-CASE-MFS-28295-1
N90-26940* #	c 26	NAS 1.71:MFS-26083-1-CU				N91-13562* #	c 27	NAS 1.71:LAR-14036-1					US-PATENT-APPL-SN-503408
		NASA-CASE-MFS-26083-1-CU						NASA-CASE-LAR-14036-1			N91-14001* #	c 74	NAS 1.71:GSC-13175-1
		US-PATENT-APPL-SN-531375						US-PATENT-APPL-SN-418372					NASA-CASE-GSC-13175-1
N90-26953* #	c 27	NAS 1.71:LAR-14159-1-CU				N91-13566* #	c 27	NAS 1.71:LEW-15027-1					US-PATENT-APPL-SN-506636
		NASA-CASE-LAR-14159-1-CU						NASA-CASE-LEW-15027-1			N91-14066* #	c 76	NAS 1.71:GSC-13265-1
		US-PATENT-APPL-SN-439317						US-PATENT-APPL-SN-603055					NASA-CASE-GSC-13265-1
N90-26954* #	c 27	NAS 1.71:LAR-14145-1				N91-13594* #	c 32	NAS 1.71:NPO-17904-1-CU					US-PATENT-APPL-SN-575694
		NASA-CASE-LAR-14145-1						NASA-CASE-NPO-17904-1-CU			N91-14096* #	c 89	NAS 1.71:MFS-28013-2
		US-PATENT-APPL-SN-508316						US-PATENT-APPL-SN-544293					NASA-CASE-MFS-28013-2
N90-26955* #	c 27	NAS 1.71:LAR-14339-1				N91-13595* #	c 32	NAS 1.71:NPO-17941-1-CU					US-PATENT-APPL-SN-545220
		NASA-CASE-LAR-14339-1						NASA-CASE-NPO-17941-1-CU			N91-14321* #	c 04	INT-PATENT-CLASS-G01S-5/02
		US-PATENT-APPL-SN-430470						US-PATENT-APPL-SN-550775					NASA-CASE-NPO-17820-1-CU
N90-26956* #	c 27	NAS 1.71:LAR-14198-1						NAS 1.71:LEW-14945-1					US-PATENT-APPL-SN-429734
		NASA-CASE-LAR-14198-1						NASA-CASE-LEW-14945-1					US-PATENT-CLASS-329-306
		US-PATENT-APPL-SN-449210						US-PATENT-APPL-SN-540976					US-PATENT-CLASS-342-352
N90-27016* #	c 32	NAS 1.71:NPO-17911-1-CU				N91-13621* #	c 33	NAS 1.71:NPO-17922-1-CU					US-PATENT-CLASS-342-357
		NASA-CASE-NPO-17911-1-CU						NASA-CASE-NPO-17922-1-CU					US-PATENT-CLASS-342-418
		US-PATENT-APPL-SN-517114						US-PATENT-APPL-SN-596139					US-PATENT-CLASS-375-80
N90-27040* #	c 33	NAS 1.71:NPO-17897-1-CU				N91-13622* #	c 33	NAS 1.71:NPO-18075-1-CU					US-PATENT-CLASS-375-94
		NASA-CASE-NPO-17897-1-CU						NASA-CASE-NPO-18075-1-CU					US-PATENT-4,959,656
		US-PATENT-APPL-SN-480449						US-PATENT-APPL-SN-555865			N91-14345* #	c 05	INT-PATENT-CLASS-B64D-33/00
N90-27070* #	c 34	NAS 1.71:NPO-17625-1-CU				N91-13658* #	c 34	NAS 1.71:NPO-17479-1-CU					NASA-CASE-LAR-14116-1
		NASA-CASE-NPO-17625-1-CU						NASA-CASE-NPO-17479-1-CU					US-PATENT-APPL-SN-004304
		US-PATENT-APPL-SN-531434						US-PATENT-APPL-SN-568127					US-PATENT-APPL-SN-243685
N90-27071* #	c 34	NAS 1.71:LAR-14078-1-CU						NAS 1.71:LEW-14162-1					US-PATENT-APPL-SN-264993
		NASA-CASE-LAR-14078-1-CU				N91-13668* #	c 34	NASA-CASE-LEW-14162-1					US-PATENT-CLASS-244-199
		US-PATENT-APPL-SN-429737						US-PATENT-APPL-SN-501893					US-PATENT-CLASS-244-58
N90-27072* #	c 34	NAS 1.71:LAR-14033-1				N91-13684* #	c 35	NAS 1.71:LAR-14340-1-CU					US-PATENT-CLASS-290-44
		NASA-CASE-LAR-14033-1						NASA-CASE-LAR-14340-1-CU					US-PATENT-CLASS-290-55
		US-PATENT-APPL-SN-501909						US-PATENT-APPL-SN-575695					US-PATENT-4,917,332
N90-27112* #	c 37	NAS 1.71:MFS-28384-1				N91-13686* #	c 35	NAS 1.71:LAR-14088-1			N91-14356* #	c 09	NASA-CASE-LAR-13629-1
		NASA-CASE-MFS-28384-1						NASA-CASE-LAR-14088-1					US-PATENT-APPL-SN-251411
		US-PATENT-APPL-SN-473064						US-PATENT-APPL-SN-552670					US-PATENT-CLASS-33-263
N90-27114* #	c 37	NAS 1.71:LAR-14062-1				N91-13691* #	c 35	NAS 1.71:SSC-00006-1					US-PATENT-CLASS-342-54
		NASA-CASE-LAR-14062-1						NASA-CASE-SSC-00006-1					US-PATENT-CLASS-356-1
		US-PATENT-APPL-SN-423089						US-PATENT-APPL-SN-489997					US-PATENT-CLASS-356-141
N90-27116* #	c 37	NAS 1.71:LAR-14142-1				N91-13694* #	c 35	INT-PATENT-CLASS-G03H-1/02					US-PATENT-CLASS-356-152
		NASA-CASE-LAR-14142-1						NASA-CASE-LAR-13989-1					US-PATENT-CLASS-364-433
		US-PATENT-APPL-SN-473030						US-PATENT-APPL-SN-318217					US-PATENT-CLASS-73-147
N90-27239* #	c 51	NAS 1.71:NPO-17653-1-CU						US-PATENT-CLASS-350-364					US-PATENT-4,932,777
		NASA-CASE-NPO-17653-1-CU						US-PATENT-CLASS-350-320			N91-14357* #	c 09	INT-PATENT-CLASS-G01M-9/00
		US-PATENT-APPL-SN-501908						US-PATENT-CLASS-350-354					NASA-CASE-ARC-11877-1-SB
N90-27268* #	c 60	NAS 1.71:NPO-17629-1-CU						US-PATENT-4,913,534					US-PATENT-APPL-SN-195563
		NASA-CASE-NPO-17629-1-CU				N91-13724* #	c 37	NAS 1.71:NPO-17800-1-CU					US-PATENT-CLASS-73-147
		US-PATENT-APPL-SN-458280						NASA-CASE-NPO-17800-1-CU					US-PATENT-4,845,993
N90-27340* #	c 61	NAS 1.71:MSC-21379-1-SB						US-PATENT-APPL-SN-522949			N91-14371* #	c 17	INT-PATENT-CLASS-G06F-15/20
		NASA-CASE-MSC-21379-1-SB						NAS 1.71:MFS-28406-1					NASA-CASE-MSC-21170-1
		US-PATENT-APPL-SN-545170				N91-13729* #	c 37	NASA-CASE-MFS-28406-1					US-PATENT-APPL-SN-182266
N90-27341* #	c 61	NAS 1.71:NPO-17845-1-CU						US-PATENT-APPL-S					

			NASA-CASE-LAR-13392-1-CU				US-PATENT-CLASS-357-30					US-PATENT-CLASS-285-82
			US-PATENT-APPL-SN-369490				US-PATENT-CLASS-357-32					US-PATENT-4,932,688
			US-PATENT-CLASS-73-170R				US-PATENT-CLASS-357-58					INT-PATENT-CLASS-B25G-3/18
			US-PATENT-4,964,300				US-PATENT-4,954,864					NASA-CASE-LAR-14465-1
N91-14418*	c 23	...	INT-PATENT-CLASS-C08G-73/10	N91-14552*	c 33	...	INT-PATENT-CLASS-G01R-1/04					US-PATENT-APPL-SN-223122
			NASA-CASE-LAR-13965-2-CU				NASA-CASE-LEW-14746-1					US-PATENT-APPL-SN-388264
			US-PATENT-APPL-SN-221386				US-PATENT-APPL-SN-392239					US-PATENT-APPL-SN-501910
			US-PATENT-APPL-SN-311551				US-PATENT-CLASS-324-158F					US-PATENT-CLASS-403-171
			US-PATENT-CLASS-526-262				US-PATENT-CLASS-324-158F					US-PATENT-CLASS-403-322
			US-PATENT-CLASS-528-322				US-PATENT-CLASS-324-601					US-PATENT-CLASS-403-327
			US-PATENT-4,895,915				US-PATENT-CLASS-333-247					US-PATENT-CLASS-403-331
N91-14419*	c 23	...	INT-PATENT-CLASS-C07D-207/44				US-PATENT-4,980,636					US-PATENT-4,963,052
			NASA-CASE-LAR-14188-2	N91-14562*	c 34	...	INT-PATENT-CLASS-B64B-21/00					INT-PATENT-CLASS-B25J-15/08
			US-PATENT-APPL-SN-087375				NASA-CASE-LAR-13532-1					NASA-CASE-LAR-13855-1
			US-PATENT-APPL-SN-328392				US-PATENT-APPL-SN-838649					US-PATENT-APPL-SN-250662
			US-PATENT-APPL-SN-391692				US-PATENT-CLASS-114-67A					US-PATENT-CLASS-294-119.1
			US-PATENT-CLASS-548-549				US-PATENT-CLASS-244-130					US-PATENT-CLASS-901-38
			US-PATENT-4,937,356				US-PATENT-CLASS-244-203					US-PATENT-CLASS-901-39
N91-14430*	c 24	...	INT-PATENT-CLASS-G01N-3/00				US-PATENT-CLASS-244-204					US-PATENT-4,955,653
			NASA-CASE-LAR-13985-1				US-PATENT-4,932,610					NASA-CASE-NPO-15959-2
			US-PATENT-APPL-SN-386172	N91-14563*	c 34	...	INT-PATENT-CLASS-F16K-3/316					US-PATENT-APPL-SN-364774
			US-PATENT-CLASS-73-794				INT-PATENT-CLASS-F16K-3/32					US-PATENT-APPL-SN-680605
			US-PATENT-4,926,694				INT-PATENT-CLASS-F16K-3/700					US-PATENT-CLASS-294-106
N91-14462*	c 26	...	INT-PATENT-CLASS-B22D-27/04				NASA-CASE-MFS-28383-1					US-PATENT-CLASS-294-111
			NASA-CASE-MFS-28314-1				US-PATENT-APPL-SN-404290					US-PATENT-CLASS-414-7
			US-PATENT-APPL-SN-404289				US-PATENT-CLASS-137-556					US-PATENT-CLASS-414-729
			US-PATENT-CLASS-164-122.1				US-PATENT-CLASS-251-212					US-PATENT-CLASS-74-479
			US-PATENT-CLASS-164-338.1				US-PATENT-4,957,139					US-PATENT-CLASS-74-665G
			US-PATENT-4,964,453	N91-14587*	c 35	.....	NASA-CASE-NPO-16989-1-CU					US-PATENT-4,921,293
N91-14489*	c 27	...	INT-PATENT-CLASS-H02K-44/10				US-PATENT-APPL-SN-358027					INT-PATENT-CLASS-F16M-13/00
			NASA-CASE-NPO-17122-1-CU				US-PATENT-CLASS-250-281					NASA-CASE-LEW-14862-1
			US-PATENT-APPL-SN-087376				US-PATENT-CLASS-250-282					US-PATENT-APPL-SN-414816
			US-PATENT-CLASS-310-11				US-PATENT-CLASS-250-282					US-PATENT-CLASS-248-229
			US-PATENT-4,928,027				US-PATENT-CLASS-250-286					US-PATENT-CLASS-248-230
N91-14495*	c 28	.....	NASA-CASE-KSC-11304-2				US-PATENT-CLASS-250-287					US-PATENT-CLASS-403-385
			US-PATENT-APPL-SN-603375				US-PATENT-CLASS-250-288					US-PATENT-CLASS-403-391
			US-PATENT-APPL-SN-798713				US-PATENT-CLASS-250-305					US-PATENT-4,946,122
			US-PATENT-CLASS-423-655				US-PATENT-CLASS-250-423					INT-PATENT-CLASS-G01S-13/90
			US-PATENT-CLASS-48-197R	N91-14588*	c 35	.....	NASA-CASE-NPO-17526-1-CU					NASA-CASE-NPO-17831-1-CU
			US-PATENT-CLASS-48-203				US-PATENT-APPL-SN-369403					US-PATENT-APPL-SN-470665
			US-PATENT-CLASS-48-77				US-PATENT-CLASS-250-338.1					US-PATENT-CLASS-342-25
			US-PATENT-CLASS-60-39.12				US-PATENT-CLASS-250-338.2					US-PATENT-4,975,704
			US-PATENT-CLASS-60-39.182				US-PATENT-CLASS-250-370.12					NASA-CASE-NST-00007-1
			US-PATENT-4,936,869				US-PATENT-CLASS-250-370.13					US-PATENT-APPL-SN-357938
N91-14508*	c 31	...	INT-PATENT-CLASS-B23K-26/00				US-PATENT-CLASS-250-493.1					US-PATENT-CLASS-210-615
			NASA-CASE-MFS-28294-1				US-PATENT-CLASS-357-27					US-PATENT-CLASS-55-228
			US-PATENT-APPL-SN-396262				US-PATENT-CLASS-357-30					US-PATENT-CLASS-55-242
			US-PATENT-CLASS-219-121.68				US-PATENT-4,952,811					US-PATENT-CLASS-55-68
			US-PATENT-4,965,429	N91-14590*	c 35	...	INT-PATENT-CLASS-G02B-27/64					US-PATENT-CLASS-55-74
N91-14523*	c 32	...	INT-PATENT-CLASS-H04L-27/18				INT-PATENT-CLASS-G02B-7/18					US-PATENT-CLASS-55-84
			NASA-CASE-NPO-16904-2-CU				NASA-CASE-LAR-14207-1					US-PATENT-CLASS-55-89
			US-PATENT-APPL-SN-246032				US-PATENT-APPL-SN-168065					US-PATENT-4,959,084
			US-PATENT-APPL-SN-929876				US-PATENT-APPL-SN-366205					INT-PATENT-CLASS-B01D-29/04
			US-PATENT-CLASS-371-43				US-PATENT-CLASS-350-287					INT-PATENT-CLASS-B01D-29/42
			US-PATENT-CLASS-375-53				US-PATENT-CLASS-350-500					NASA-CASE-MSC-20929-1
			US-PATENT-CLASS-375-57				US-PATENT-4,895,430					US-PATENT-APPL-SN-087358
			US-PATENT-4,945,549	N91-14591*	c 35	...	INT-PATENT-CLASS-F41G-11/00					US-PATENT-CLASS-210-355
N91-14536*	c 33	...	INT-PATENT-CLASS-H07M-10/39				INT-PATENT-CLASS-G02B-23/00					US-PATENT-CLASS-210-414
			INT-PATENT-CLASS-H07M-4/60				NASA-CASE-ARC-11886-1-SB					US-PATENT-CLASS-435-311
			NASA-CASE-NPO-17604-1-CU				US-PATENT-APPL-SN-418374					US-PATENT-CLASS-435-316
			US-PATENT-APPL-SN-404288				US-PATENT-CLASS-33-261					US-PATENT-4,839,046
			US-PATENT-CLASS-252-62.2				US-PATENT-CLASS-350-576					NASA-CASE-MSC-20078-3
			US-PATENT-CLASS-429-104				US-PATENT-4,957,357					US-PATENT-APPL-SN-183475
			US-PATENT-CLASS-429-213	N91-14607*	c 37	...	INT-PATENT-CLASS-G08B-21/00					US-PATENT-APPL-SN-394343
			US-PATENT-4,966,823				NASA-CASE-MSC-21408-1					US-PATENT-APPL-SN-585627
N91-14537*	c 33	...	INT-PATENT-CLASS-H01L-43/00				US-PATENT-APPL-SN-304154					US-PATENT-CLASS-128-671
			NASA-CASE-MSC-21428-1				US-PATENT-CLASS-340-683					US-PATENT-CLASS-128-689
			US-PATENT-APPL-SN-343852				US-PATENT-CLASS-73-658					US-PATENT-CLASS-128-706
			US-PATENT-CLASS-320-51				US-PATENT-4,977,395					US-PATENT-CLASS-128-716
			US-PATENT-CLASS-338-221	N91-14608*	c 37	...	INT-PATENT-CLASS-F01D-11/08					US-PATENT-CLASS-331-1
			US-PATENT-CLASS-338-32				NASA-CASE-MFS-28345-1					US-PATENT-4,936,309
			US-PATENT-4,973,936				US-PATENT-APPL-SN-364743					INT-PATENT-CLASS-E03D-9/04
N91-14538*	c 33	...	INT-PATENT-CLASS-H01M-6/20				US-PATENT-CLASS-415-170.1					NASA-CASE-MSC-21025-4
			NASA-CASE-NPO-17640-1-CU				US-PATENT-CLASS-415-174.5					US-PATENT-APPL-SN-035401
			US-PATENT-APPL-SN-405169				US-PATENT-CLASS-415-229					US-PATENT-APPL-SN-392228
			US-PATENT-CLASS-429-103				US-PATENT-4,927,326					US-PATENT-CLASS-4-209R
			US-PATENT-CLASS-429-120	N91-14609*	c 37	....	INT-PATENT-CLASS-F16K-1/22					US-PATENT-CLASS-4-316
			US-PATENT-4,945,012				NASA-CASE-SSC-00004-1					US-PATENT-CLASS-4-482
N91-14539*	c 33	...	INT-PATENT-CLASS-H01F-27/30				US-PATENT-APPL-SN-404292					US-PATENT-4,937,891
			NASA-CASE-NPO-17830-1-CU				US-PATENT-CLASS-251-160					INT-PATENT-CLASS-A47K-11/00
			US-PATENT-APPL-SN-443297				US-PATENT-CLASS-251-163					NASA-CASE-MSC-21025-2
			US-PATENT-CLASS-336-198				US-PATENT-4,921,212					US-PATENT-APPL-SN-035401
			US-PATENT-CLASS-336-205	N91-14610*	c 37	...	INT-PATENT-CLASS-B25G-3/00					US-PATENT-APPL-SN-391911
			US-PATENT-CLASS-336-229				INT-PATENT-CLASS-F16B-1/00					US-PATENT-CLASS-4-DIG.9
			US-PATENT-4,975,672				NASA-CASE-MSC-21539-1					US-PATENT-CLASS-4-316
N91-14550*	c 33	...	INT-PATENT-CLASS-H03D-1/00				US-PATENT-APPL-SN-503410					US-PATENT-CLASS-4-482
			NASA-CASE-GSC-13237-1				US-PATENT-CLASS-285-327					US-PATENT-CLASS-4-661
			US-PATENT-APPL-SN-418612				US-PATENT-CLASS-403-317					US-PATENT-4,942,632
			US-PATENT-CLASS-328-151				US-PATENT-CLASS-403-327					INT-PATENT-CLASS-G06F-15/18
			US-PATENT-CLASS-329-363				US-PATENT-CLASS-403-331					NASA-CASE-MSC-21465-1
			US-PATENT-4,973,914				US-PATENT-CLASS-403-381					US-PATENT-APPL-SN-219295
N91-14551*	c 33	...	INT-PATENT-CLASS-H01L-27/14				US-PATENT-4,971,474					US-PATENT-CLASS-364-513
			NASA-CASE-NPO-17258-1-CU	N91-14613*	c 37	...	INT-PATENT-CLASS-F16L-35/00					US-PATENT-CLASS-364-578
			US-PATENT-APPL-SN-283673				NASA-CASE-MFS-26042-1-SB					US-PATENT-4,965,743
			US-PATENT-CLASS-357-15				US-PATENT-APPL-SN-161682					INT-PATENT-CLASS-G06F-15/16
			US-PATENT-CLASS-357-29				US-PATENT-CLASS-285-361					INT-PATENT-CLASS-G06F-9/46

				NASA-CASE-MSC-21348-1	US-PATENT-CLASS-528-173				US-PATENT-4,912,238
				US-PATENT-APPL-SN-283106	US-PATENT-CLASS-528-176				NASA-CASE-LEW-14990-1-CU
				US-PATENT-CLASS-364-228.3	US-PATENT-CLASS-528-353				US-PATENT-APPL-SN-326757
				US-PATENT-CLASS-364-231.9	US-PATENT-4,937,317				US-PATENT-APPL-SN-433863
				US-PATENT-CLASS-364-280	NAS 1.71:LEW-15020-1				US-PATENT-CLASS-419-24
				US-PATENT-CLASS-364-281	NASA-CASE-LEW-15020-1				US-PATENT-CLASS-419-36
				US-PATENT-CLASS-364-300	US-PATENT-APPL-SN-601957				US-PATENT-CLASS-419-37
				US-PATENT-4,920,487	NASA-CASE-NPO-16985-1-CU				US-PATENT-CLASS-419-48
N91-14772*	c 62	INT-PATENT-CLASS-H04J-3/02		NASA-CASE-NPO-17185-1-CU	US-PATENT-APPL-SN-195222				US-PATENT-CLASS-419-49
		NASA-CASE-NPO-17185-1-CU		US-PATENT-APPL-SN-085833	US-PATENT-CLASS-110-165R				US-PATENT-CLASS-419-8
		US-PATENT-CLASS-340-825.5		US-PATENT-CLASS-370-85.4	US-PATENT-CLASS-110-171				US-PATENT-4,980,126
		US-PATENT-CLASS-370-85.4		US-PATENT-CLASS-370-85.6	US-PATENT-CLASS-110-259				NAS 1.71:MFS-28422-1
		US-PATENT-CLASS-370-85.9		US-PATENT-CLASS-370-94.3	US-PATENT-CLASS-414-217				NASA-CASE-MFS-28422-1
		US-PATENT-CLASS-370-94.3		US-PATENT-4,933,936	US-PATENT-CLASS-414-220				US-PATENT-APPL-SN-629740
N91-14807*	c 71	INT-PATENT-CLASS-G01K-15/00		NASA-CASE-NPO-17511-1-CU	US-PATENT-4,860,669				INT-PATENT-CLASS-G01L-3/00
		US-PATENT-APPL-SN-271265		US-PATENT-CLASS-165-41	INT-PATENT-CLASS-F8-15/00				NASA-CASE-NPO-17461-1-CU
		US-PATENT-CLASS-73-505		US-PATENT-CLASS-165-904	NASA-CASE-LEW-14295-1				US-PATENT-APPL-SN-326820
		US-PATENT-4,964,303		US-PATENT-CLASS-239-597	US-PATENT-APPL-SN-244377				US-PATENT-CLASS-73-862.33
N91-14808*	c 71	INT-PATENT-CLASS-H01L-41/08		US-PATENT-CLASS-239-601	US-PATENT-CLASS-165-104.31				US-PATENT-4,932,270
		NASA-CASE-NPO-17620-1-CU		US-PATENT-CLASS-244-163	US-PATENT-CLASS-165-41				INT-PATENT-CLASS-H01S-3/098
		US-PATENT-APPL-SN-326756		US-PATENT-4,913,225	US-PATENT-CLASS-165-904				NASA-CASE-NPO-17355-1-CU
		US-PATENT-CLASS-181-0.5		INT-PATENT-CLASS-G01F-17/00	US-PATENT-CLASS-239-597				US-PATENT-APPL-SN-283431
		US-PATENT-CLASS-310-323		NASA-CASE-MSC-21059-2	US-PATENT-CLASS-239-601				US-PATENT-CLASS-372-19
		US-PATENT-CLASS-310-325		US-PATENT-APPL-SN-396726	US-PATENT-CLASS-244-163				US-PATENT-CLASS-372-39
		US-PATENT-CLASS-310-334		US-PATENT-CLASS-73-149	US-PATENT-4,913,225				US-PATENT-CLASS-372-66
		US-PATENT-4,962,330		US-PATENT-4,956,996	INT-PATENT-CLASS-G01F-17/00				US-PATENT-CLASS-372-70
N91-14813*	c 72	NASA-CASE-NPO-17498-1-CU		INT-PATENT-CLASS-G01B-11/26	NASA-CASE-MSC-21059-2				US-PATENT-4,860,295
		US-PATENT-APPL-SN-260762		INT-PATENT-CLASS-G01C-1/00	US-PATENT-APPL-SN-217725				INT-PATENT-CLASS-F16D-3/02
		US-PATENT-CLASS-437-225		INT-PATENT-CLASS-G01C-3/08	US-PATENT-APPL-SN-396726				NASA-CASE-GSC-13153-1
		US-PATENT-CLASS-437-228		NASA-CASE-NPO-17436-1-CU	US-PATENT-CLASS-73-149				US-PATENT-APPL-SN-326863
		US-PATENT-CLASS-437-235		US-PATENT-APPL-SN-237035	US-PATENT-4,956,996				US-PATENT-CLASS-403-113
		US-PATENT-CLASS-437-238		US-PATENT-CLASS-356-141	INT-PATENT-CLASS-G01B-11/26				US-PATENT-CLASS-403-291
		US-PATENT-CLASS-437-239		US-PATENT-CLASS-356-152	INT-PATENT-CLASS-G01C-1/00				US-PATENT-CLASS-403-57
		US-PATENT-CLASS-437-930		US-PATENT-CLASS-356-5	INT-PATENT-CLASS-G01C-3/08				US-PATENT-CLASS-464-132
		US-PATENT-CLASS-437-936		US-PATENT-4,964,722	NASA-CASE-NPO-17436-1-CU				US-PATENT-CLASS-464-56
		US-PATENT-4,902,647		NAS 1.71:MFS-28485-1	US-PATENT-APPL-SN-237035				US-PATENT-4,932,806
N91-14835*	c 74	INT-PATENT-CLASS-G01N-23/20		NASA-CASE-MFS-28485-1	US-PATENT-CLASS-356-141				INT-PATENT-CLASS-F16D-3/50
		INT-PATENT-CLASS-H05B-33/00		US-PATENT-APPL-SN-606988	US-PATENT-CLASS-356-5				NASA-CASE-GSC-13127-1
		NASA-CASE-MFS-28232-1		NASA-CASE-ARC-11917-1	US-PATENT-4,964,722				US-PATENT-APPL-SN-193612
		US-PATENT-APPL-SN-304155		NASA-CASE-ARC-11917-1	NAS 1.71:MFS-28485-1				US-PATENT-CLASS-464-56
		US-PATENT-CLASS-250-327.2		US-PATENT-APPL-SN-596105	US-PATENT-APPL-SN-606988				US-PATENT-CLASS-901-28
		US-PATENT-CLASS-250-484.1		NASA-CASE-NPO-17282-1-CU	NASA-CASE-MFS-28485-1				US-PATENT-4,946,421
		US-PATENT-4,933,558		US-PATENT-APPL-SN-235150	US-PATENT-APPL-SN-606988				NAS 1.71:GSC-13261-1
N91-14872*	c 76	INT-PATENT-CLASS-H01L-41/08		US-PATENT-CLASS-372-41	NASA-CASE-ARC-11917-1				NASA-CASE-GSC-13261-1
		NASA-CASE-MFS-28298-1		US-PATENT-CLASS-372-71	US-PATENT-APPL-SN-596105				US-PATENT-APPL-SN-628529
		US-PATENT-APPL-SN-343656		US-PATENT-CLASS-372-75	NASA-CASE-NPO-17282-1-CU				NAS 1.71:MSC-21662-1
		US-PATENT-CLASS-310-330		US-PATENT-4,974,230	US-PATENT-APPL-SN-235150				NASA-CASE-MSC-21662-1
		US-PATENT-CLASS-310-331		INT-PATENT-CLASS-F16C-11/00	US-PATENT-CLASS-372-41				US-PATENT-APPL-SN-625345
		US-PATENT-CLASS-310-339		NASA-CASE-LAR-13898-1	US-PATENT-CLASS-372-71				NASA-CASE-MSC-21470-1
		US-PATENT-CLASS-310-340		US-PATENT-APPL-SN-225427	US-PATENT-CLASS-372-75				US-PATENT-APPL-SN-381239
		US-PATENT-4,952,836		US-PATENT-CLASS-403-146	US-PATENT-4,974,230				US-PATENT-CLASS-374-8
N91-15142*	c 03	INT-PATENT-CLASS-B64D-25/08		US-PATENT-CLASS-403-147	INT-PATENT-CLASS-F16C-11/00				US-PATENT-CLASS-422-104
		NASA-CASE-MSC-21332-1		US-PATENT-CLASS-403-156	NASA-CASE-LAR-13898-1				US-PATENT-CLASS-422-78
		US-PATENT-APPL-SN-242253		US-PATENT-CLASS-403-334	US-PATENT-APPL-SN-225427				US-PATENT-CLASS-422-80
		US-PATENT-CLASS-102-262		US-PATENT-4,932,807	US-PATENT-CLASS-403-146				US-PATENT-CLASS-73-865.6
		US-PATENT-CLASS-244-122AD		NAS 1.71:MFS-26102-1-CU	US-PATENT-CLASS-403-147				US-PATENT-4,990,312
		US-PATENT-CLASS-244-137.2		NASA-CASE-MFS-26102-1-CU	US-PATENT-CLASS-403-156				INT-PATENT-CLASS-G01M-3/28
		US-PATENT-CLASS-244-162		US-PATENT-APPL-SN-571687	US-PATENT-CLASS-403-334				NASA-CASE-MFS-28376-1
		US-PATENT-CLASS-42-1.13		NASA-CASE-LAR-14402-1-CU	US-PATENT-4,932,807				US-PATENT-APPL-SN-361479
		US-PATENT-CLASS-89-1.34		NASA-CASE-LAR-14402-1-CU	NAS 1.71:MFS-26102-1-CU				US-PATENT-CLASS-73-49.8
		US-PATENT-4,860,971		US-PATENT-APPL-SN-571687	NASA-CASE-MFS-26102-1-CU				US-PATENT-5,000,033
N91-15320*	c 24	INT-PATENT-CLASS-H01B-1/06		NASA-CASE-LAR-14402-1-CU	US-PATENT-APPL-SN-571687				INT-PATENT-CLASS-G01M-19/00
		NASA-CASE-LEW-14472-1		US-PATENT-APPL-SN-586369	NASA-CASE-LAR-14402-1-CU				INT-PATENT-CLASS-G01M-7/02
		US-PATENT-APPL-SN-251499		NASA-CASE-NPO-16306-1-CU	NASA-CASE-LAR-14402-1-CU				NASA-CASE-LAR-14149-1-SB
		US-PATENT-CLASS-252-510		US-PATENT-APPL-SN-718798	US-PATENT-APPL-SN-586369				US-PATENT-APPL-SN-357757
		US-PATENT-CLASS-423-439		US-PATENT-CLASS-118-405	NASA-CASE-NPO-16306-1-CU				US-PATENT-CLASS-73-663
		US-PATENT-CLASS-423-448		US-PATENT-CLASS-118-419	US-PATENT-APPL-SN-718798				US-PATENT-CLASS-73-865.6
		US-PATENT-CLASS-423-460		US-PATENT-CLASS-118-428	US-PATENT-CLASS-118-405				US-PATENT-CLASS-73-866.4
		US-PATENT-CLASS-423-489		US-PATENT-CLASS-156-608	US-PATENT-CLASS-118-419				US-PATENT-4,995,272
		US-PATENT-4,957,661		US-PATENT-CLASS-156-617.1	US-PATENT-CLASS-118-428				INT-PATENT-CLASS-B25G-3/00
N91-15333* #	c 24	NAS 1.71:MFS-28390-1		US-PATENT-CLASS-156-620.1	US-PATENT-CLASS-156-608				NASA-CASE-MSC-21504-1
		NASA-CASE-MFS-28390-1		US-PATENT-4,861,416	US-PATENT-CLASS-156-617.1				US-PATENT-APPL-SN-516856
		US-PATENT-APPL-SN-578043		NAS 1.71:MSC-21589-1	US-PATENT-CLASS-156-620.1				US-PATENT-CLASS-403-171
N91-15334* #	c 24	NAS 1.71:LAR-14459-1		NASA-CASE-MSC-21589-1	US-PATENT-4,861,416				US-PATENT-CLASS-403-252
		NASA-CASE-LAR-14459-1		US-PATENT-APPL-SN-529427	NAS 1.71:MSC-21589-1				US-PATENT-CLASS-52-646
		US-PATENT-APPL-SN-613046		NAS 1.71:LAR-14361-1	NASA-CASE-MSC-21589-1				US-PATENT-4,998,842
N91-15368* #	c 25	NAS 1.71:MFS-29576-1		NASA-CASE-LAR-14361-1	US-PATENT-APPL-SN-529427				INT-PATENT-CLASS-B24G-1/00
		NASA-CASE-MFS-29576-1		US-PATENT-APPL-SN-587920	NAS 1.71:LAR-14361-1				NASA-CASE-MSC-21534-1
		US-PATENT-APPL-SN-587890		NAS 1.71:MFS-26061-1	NASA-CASE-LAR-14361-1				US-PATENT-APPL-SN-480985
N91-15402*	c 27	INT-PATENT-CLASS-C08G-73/10		NASA-CASE-MFS-26061-1	US-PATENT-APPL-SN-587920				US-PATENT-CLASS-244-14
		NASA-CASE-LEW-14203-1		US-PATENT-CLASS-575708	NAS 1.71:MFS-26061-1				US-PATENT-4,991,788
		US-PATENT-APPL-SN-231026		NAS 1.71:LAR-13742-1	NASA-CASE-MFS-26061-1				INT-PATENT-CLASS-H01S-3/22
		US-PATENT-CLASS-524-600		US-PATENT-APPL-SN-621144	US-PATENT-CLASS-575708				NASA-CASE-LAR-14155-2-SB
		US-PATENT-CLASS-525-436		NASA-CASE-LAR-13742-1	NAS 1.71:LAR-13742-1				US-PATENT-APPL-SN-298150
		US-PATENT-CLASS-528-353		US-PATENT-APPL-SN-621144	NASA-CASE-LAR-13742-1				US-PATENT-APPL-SN-443406
		US-PATENT-4,946,690		INT-PATENT-CLASS-C07C-15/16	US-PATENT-APPL-SN-621144				US-PATENT-CLASS-372-59
N91-15403*	c 27	INT-PATENT-CLASS-C08G-69/26		NASA-CASE-LEW-14345-3	NASA-CASE-LAR-13742-1				US-PATENT-CLASS-423-247
		NASA-CASE-LAR-14101-1		US-PATENT-APPL-SN-159071	NASA-CASE-LEW-14345-3				US-PATENT-CLASS-502-324
		US-PATENT-APPL-SN-266045		US-PATENT-APPL-SN-292049	US-PATENT-CLASS-528-126				US-PATENT-CLASS-502-34
		US-PATENT-CLASS-528-125		US-PATENT-APPL-SN-924474	US-PATENT-CLASS-528-126				US-PATENT-4,991,181
		US-PATENT-CLASS-528-126		US-PATENT-CLASS-552-101	US-PATENT-CLASS-528-172				INT-PATENT-CLASS-H01L-27/14
		US-PATENT-CLASS-528-172							NASA-CASE-NPO-17426-1-CU

F-97

N91-25380*	c 34	...	NASA-CASE-MFS-29766-1 US-PATENT-APPL-SN-677182 INT-PATENT-CLASS-B64G-1/28 NASA-CASE-NPO-17204-1-CU US-PATENT-APPL-SN-473242 US-PATENT-CLASS-114-122 US-PATENT-CLASS-114-125 US-PATENT-CLASS-244-164 US-PATENT-CLASS-244-165 US-PATENT-5,026,008 NAS 1.71:MFS-28563-1 NASA-CASE-MFS-28563-1 US-PATENT-APPL-SN-710193	N91-26918*	c 74	.....	US-PATENT-CLASS-83-614 US-PATENT-CLASS-83-649 US-PATENT-5,005,457 NASA-CASE-NPO-17512-1-CU US-PATENT-APPL-SN-310992 US-PATENT-CLASS-350-353 US-PATENT-CLASS-350-354 US-PATENT-CLASS-350-358 US-PATENT-CLASS-364-713 US-PATENT-CLASS-364-822 US-PATENT-CLASS-364-837 US-PATENT-CLASS-364-841 US-PATENT-5,005,954 NAS 1.71:LEW-15222-1 NASA-CASE-LEW-15222-1 US-PATENT-APPL-SN-718315	N91-27439*	c 32	..	INT-PATENT-CLASS-H04L-27/22 NASA-CASE-NPO-17896-1-CU US-PATENT-APPL-SN-560691 US-PATENT-CLASS-329-304 US-PATENT-CLASS-375-53 US-PATENT-CLASS-375-56 US-PATENT-CLASS-375-85 US-PATENT-CLASS-375-86 US-PATENT-5,017,883
N91-25388* #	c 35	.....	NASA-CASE-LAR-14556-1 US-PATENT-APPL-SN-699289	N91-26966* #	c 76	.....	NAS 1.71:LEW-15223-1 NASA-CASE-LEW-15223-1 US-PATENT-APPL-SN-718314	N91-27478*	c 33	...	INT-PATENT-CLASS-H01M-4/04 INT-PATENT-CLASS-H01M-4/58 NASA-CASE-NPO-17809-1-CU US-PATENT-APPL-SN-503409 US-PATENT-CLASS-29-623.5 US-PATENT-CLASS-429-223 US-PATENT-5,019,470
N91-25392* #	c 36	.....	NAS 1.71:MSC-21748-1 NASA-CASE-MSC-21748-1 US-PATENT-APPL-SN-657598	N91-26967* #	c 76	.....	NAS 1.71:MFS-28473-1 NASA-CASE-MFS-28473-1 US-PATENT-APPL-SN-717447	N91-27479*	c 33	....	INT-PATENT-CLASS-G05F-1/12 NASA-CASE-GSC-13280-1 US-PATENT-APPL-SN-418373 US-PATENT-CLASS-323-311 US-PATENT-CLASS-323-312 US-PATENT-5,021,729
N91-25415* #	c 37	.....	NAS 1.71:MSC-21763-1 NASA-CASE-MSC-21763-1 US-PATENT-APPL-SN-671603	N91-26968* #	c 76	.....	NASA-CASE-MFS-28473-1 US-PATENT-APPL-SN-717447 INT-PATENT-CLASS-B64C-17/00 NASA-CASE-LAR-14322-1 US-PATENT-APPL-SN-603335 US-PATENT-CLASS-244-113 US-PATENT-CLASS-244-139 US-PATENT-CLASS-244-75R US-PATENT-5,020,739	N91-27504*	c 34	....	INT-PATENT-CLASS-F16K-3/32 INT-PATENT-CLASS-F16K-31/06 NASA-CASE-MSC-21549-1 US-PATENT-APPL-SN-507553 US-PATENT-CLASS-251-129.15 US-PATENT-CLASS-251-148 US-PATENT-CLASS-251-205 US-PATENT-CLASS-251-326 US-PATENT-CLASS-251-363 US-PATENT-5,020,774
N91-25693* #	c 62	.	INT-PATENT-CLASS-G06F-12/00 NASA-CASE-NPO-17197-1-CU US-PATENT-APPL-SN-292124 US-PATENT-CLASS-364-200 US-PATENT-CLASS-364-281 US-PATENT-CLASS-364-281.3 US-PATENT-CLASS-364-281.6 US-PATENT-CLASS-364-281.8 US-PATENT-5,031,089	N91-27139*	c 02	.	INT-PATENT-CLASS-B64C-7/00 INT-PATENT-CLASS-B64D-1/02 NASA-CASE-LAR-13875-1 US-PATENT-APPL-SN-250468 US-PATENT-CLASS-244-118.1 US-PATENT-CLASS-244-130 US-PATENT-CLASS-244-137.4 US-PATENT-5,018,688	N91-27522*	c 35	.	INT-PATENT-CLASS-H04R-25/00 NASA-CASE-GSC-13027-1-CU US-PATENT-APPL-SN-363807 US-PATENT-CLASS-381-26 US-PATENT-CLASS-381-68.1 US-PATENT-CLASS-381-92 US-PATENT-5,029,216
N91-25840*	c 74	.....	NASA-CASE-MSC-21509-1 US-PATENT-APPL-SN-560924 US-PATENT-CLASS-350-162.13 US-PATENT-CLASS-350-3.68 US-PATENT-CLASS-382-31 US-PATENT-CLASS-382-32 US-PATENT-CLASS-382-43 US-PATENT-CLASS-382-49 US-PATENT-CLASS-382-6 US-PATENT-5,029,220	N91-27156*	c 05	....	INT-PATENT-CLASS-B64C-7/00 INT-PATENT-CLASS-B64D-1/02 NASA-CASE-LAR-13875-1 US-PATENT-APPL-SN-250468 US-PATENT-CLASS-244-118.1 US-PATENT-CLASS-244-130 US-PATENT-CLASS-244-137.4 US-PATENT-5,018,688	N91-27560*	c 37	.	INT-PATENT-CLASS-B64D-33/04 INT-PATENT-CLASS-F16J-15/46 NASA-CASE-LEW-14672-1 US-PATENT-APPL-SN-441672 US-PATENT-CLASS-239-265.11 US-PATENT-CLASS-277-157 US-PATENT-CLASS-277-226 US-PATENT-CLASS-277-229 US-PATENT-CLASS-277-34 US-PATENT-5,014,917
N91-25841*	c 74	..	INT-PATENT-CLASS-H01L-27/02 INT-PATENT-CLASS-H01L-29/161 NASA-CASE-NPO-18101-1-CU US-PATENT-APPL-SN-596133 US-PATENT-CLASS-357-16 US-PATENT-CLASS-357-17 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-34 US-PATENT-CLASS-357-46 US-PATENT-5,027,182	N91-27199*	c 18	.	INT-PATENT-CLASS-E04H-12/18 NASA-CASE-LAR-13490-1 US-PATENT-APPL-SN-899683 US-PATENT-CLASS-403-72 US-PATENT-CLASS-52-646 US-PATENT-5,016,418	N91-27561*	c 37	....	INT-PATENT-CLASS-B60P-7/15 INT-PATENT-CLASS-E05C-5/04 NASA-CASE-LEW-14887-1 US-PATENT-APPL-SN-503418 US-PATENT-CLASS-292-60 US-PATENT-CLASS-292-61 US-PATENT-CLASS-410-80 US-PATENT-CLASS-410-84 US-PATENT-5,032,045
N91-25875*	c 75	....	INT-PATENT-CLASS-823K-9/00 NASA-CASE-LEW-14901-1 US-PATENT-APPL-SN-376488 US-PATENT-CLASS-219-121.47 US-PATENT-CLASS-219-121.48 US-PATENT-CLASS-219-121.52 US-PATENT-CLASS-219-75 US-PATENT-CLASS-219-76.16 US-PATENT-CLASS-427-34 US-PATENT-4,990,739	N91-27200*	c 18	.	INT-PATENT-CLASS-G02B-5/122 NASA-CASE-MFS-28419-1 US-PATENT-APPL-SN-431538 US-PATENT-CLASS-350-102 US-PATENT-CLASS-350-107 US-PATENT-CLASS-350-97 US-PATENT-5,020,876	N91-27562*	c 37	.....	NASA-CASE-LAR-14489-1 US-PATENT-APPL-SN-543926 US-PATENT-CLASS-264-184 US-PATENT-CLASS-264-211.15 US-PATENT-CLASS-264-211.16 US-PATENT-CLASS-264-211.17 US-PATENT-CLASS-264-234 US-PATENT-CLASS-264-236 US-PATENT-CLASS-264-345 US-PATENT-5,023,034
N91-26159* #	c 09	.....	NAS 1.71:LAR-14435-1-CU NASA-CASE-LAR-14435-1-CU US-PATENT-APPL-SN-690144	N91-27201*	c 18	...	INT-PATENT-CLASS-B64G-1/42 NASA-CASE-GSC-13197-1 US-PATENT-APPL-SN-344872 US-PATENT-CLASS-244-159 US-PATENT-5,020,743	N91-27614*	c 44	..	INT-PATENT-CLASS-H01L-31/18 INT-PATENT-CLASS-H01L-31/42 NASA-CASE-LEW-14959-1 US-PATENT-APPL-SN-495969 US-PATENT-CLASS-136-244 US-PATENT-CLASS-136-249 US-PATENT-CLASS-136-256 US-PATENT-CLASS-357-30 US-PATENT-CLASS-437-2 US-PATENT-5,019,176
N91-26200* #	c 20	.....	NAS 1.71:14846-2 NASA-CASE-LEW-14846-2 US-PATENT-APPL-SN-709907	N91-27220*	c 23	.	INT-PATENT-CLASS-C08G-14/00 INT-PATENT-CLASS-C08G-8/02 NASA-CASE-LAR-13992-1-CU US-PATENT-APPL-SN-248009 US-PATENT-CLASS-528-125 US-PATENT-CLASS-528-126 US-PATENT-CLASS-528-128 US-PATENT-CLASS-528-219 US-PATENT-CLASS-528-220 US-PATENT-4,902,769	N91-27913*	c 71	.....	NASA-CASE-LAR-13968-1 US-PATENT-APPL-SN-392165 US-PATENT-CLASS-181-206 US-PATENT-CLASS-181-286 US-PATENT-CLASS-181-290 US-PATENT-CLASS-181-295 US-PATENT-CLASS-381-71 US-PATENT-CLASS-381-94 US-PATENT-CLASS-52-144 US-PATENT-5,024,288
N91-26375* #	c 27	.....	NAS 1.71:LEW-15155-1 NASA-CASE-LEW-15155-1 US-PATENT-APPL-SN-682160	N91-27244*	c 24	.....	NASA-CASE-LEW-14902-1 US-PATENT-APPL-SN-571058 US-PATENT-CLASS-419-14 US-PATENT-CLASS-419-30 US-PATENT-CLASS-419-32 US-PATENT-CLASS-419-36 US-PATENT-CLASS-419-38 US-PATENT-CLASS-419-39 US-PATENT-CLASS-419-49 US-PATENT-5,034,187	N91-27914*	c 71	....	INT-PATENT-CLASS-A61B-8/00 NASA-CASE-LAR-13966-1
N91-26376* #	c 27	.....	NAS 1.71:LEW-14999-2 NASA-CASE-LEW-14999-2 US-PATENT-APPL-SN-662684	N91-27372*	c 27	.....	NASA-CASE-NPO-17633-1-CU US-PATENT-APPL-SN-418611 US-PATENT-CLASS-528-220 US-PATENT-CLASS-528-222 US-PATENT-CLASS-528-225 US-PATENT-CLASS-528-227 US-PATENT-CLASS-528-228 US-PATENT-CLASS-528-230 US-PATENT-CLASS-528-233 US-PATENT-5,011,907				
N91-26438*	c 33	...	INT-PATENT-CLASS-H03D-1/04 NASA-CASE-GSC-13179-1 US-PATENT-APPL-SN-414815 US-PATENT-CLASS-307-353 US-PATENT-CLASS-329-349 US-PATENT-CLASS-329-361 US-PATENT-5,015,963	N91-27385*	c 31	....	INT-PATENT-CLASS-F28F-7/00				
N91-26459* #	c 33	.....	NAS 1.71:MFS-28458-1 NASA-CASE-MFS-28458-1 US-PATENT-APPL-SN-710192								
N91-26542* #	c 37	.....	NAS 1.71:MFS-28521-1 NASA-CASE-MFS-28521-1 US-PATENT-APPL-SN-657586								
N91-26543* #	c 37	.....	NAS 1.71:LEW-15196-1 NASA-CASE-LEW-15196-1 US-PATENT-APPL-SN-687606								
N91-26747*	c 54	.....	NASA-CASE-MSC-21025-3 US-PATENT-APPL-SN-035401 US-PATENT-APPL-SN-392174 US-PATENT-CLASS-83-203 US-PATENT-CLASS-83-206 US-PATENT-CLASS-83-277 US-PATENT-CLASS-83-282								

			US-PATENT-APPL-SN-422726	N91-28785* #	c 63	NAS 1.71:GSC-13377-1	US-PATENT-APPL-SN-921576
			US-PATENT-CLASS-128-660.06			NASA-CASE-GSC-13377-1	US-PATENT-CLASS-455-1
			US-PATENT-CLASS-73-631			US-PATENT-APPL-SN-710845	US-PATENT-CLASS-455-102
			US-PATENT-5,031,627	N91-29714* #	c 52	NAS 1.71:GSC-13348-2	US-PATENT-CLASS-455-99
N91-27936*	c 72	..	INT-PATENT-CLASS-H01J-37/00			NASA-CASE-GSC-13348-2	US-PATENT-5,014,340
			NASA-CASE-LAR-14250-1-SB			US-PATENT-APPL-SN-725111	INT-PATENT-CLASS-G01F-1/00
			US-PATENT-APPL-SN-531372	N91-30667*	c 51	INT-PATENT-CLASS-C12M-3/02	NASA-CASE-LAR-13952-2-SB
			US-PATENT-CLASS-250-306			NASA-CASE-MS-C-21294-1	US-PATENT-APPL-SN-203178
			US-PATENT-CLASS-250-307			US-PATENT-APPL-SN-213558	US-PATENT-APPL-SN-348223
			US-PATENT-CLASS-250-358.1			US-PATENT-CLASS-261-83	US-PATENT-CLASS-73-432.1
			US-PATENT-5,015,851			US-PATENT-CLASS-435-285	US-PATENT-4,936,146
N91-27957*	c 74	..	INT-PATENT-CLASS-H04B-10/00			US-PATENT-CLASS-435-286	INT-PATENT-CLASS-G01K-17/06
			NASA-CASE-NPO-17703-1-CU			US-PATENT-CLASS-435-312	INT-PATENT-CLASS-G01K-17/16
			US-PATENT-APPL-SN-359801			US-PATENT-CLASS-435-313	NASA-CASE-LEW-14967-1
			US-PATENT-CLASS-356-5			US-PATENT-CLASS-435-818	US-PATENT-APPL-SN-531433
			US-PATENT-CLASS-455-605			US-PATENT-5,026,650	US-PATENT-CLASS-136-200
			US-PATENT-5,031,234	N91-31113*	c 03	INT-PATENT-CLASS-B63C-9/01	US-PATENT-CLASS-250-356.1
N91-28014*	c 76	INT-PATENT-CLASS-H01L-21/324				INT-PATENT-CLASS-B64C-1/22	US-PATENT-CLASS-374-180
		NASA-CASE-NPO-17678-1-CU				INT-PATENT-CLASS-B64D-1/08	US-PATENT-CLASS-374-208
		US-PATENT-APPL-SN-357758				INT-PATENT-CLASS-B64D-9/00	US-PATENT-CLASS-374-29
		US-PATENT-CLASS-357-82				NASA-CASE-ARC-11909-1	US-PATENT-5,048,973
		US-PATENT-CLASS-437-187				US-PATENT-APPL-SN-418320	INT-PATENT-CLASS-B23D-21/06
		US-PATENT-CLASS-437-197				US-PATENT-CLASS-244-137.2	INT-PATENT-CLASS-B26B-27/00
		US-PATENT-CLASS-437-199				US-PATENT-CLASS-441-83	INT-PATENT-CLASS-B26D-3/16
		US-PATENT-CLASS-437-247				US-PATENT-5,020,742	NASA-CASE-MS-C-21469-1
		US-PATENT-CLASS-437-248				INT-PATENT-CLASS-G06F-15/50	US-PATENT-APPL-SN-486458
		US-PATENT-5,019,533				NASA-CASE-LAR-13854-1-CU	US-PATENT-CLASS-30-388
N91-28135* #	c 02	.....	NAS 1.71:LAR-14685-1			US-PATENT-APPL-SN-082766	US-PATENT-CLASS-30-92
			NASA-CASE-LAR-14685-1			US-PATENT-APPL-SN-192562	US-PATENT-5,038,473
			US-PATENT-APPL-SN-718313			US-PATENT-CLASS-364-427	INT-PATENT-CLASS-B23Q-3/155
N91-28175* #	c 09	.....	NAS 1.71:LAR-13548-1			US-PATENT-CLASS-364-428	NASA-CASE-GSC-13239-1
			NASA-CASE-LAR-13548-1			US-PATENT-CLASS-73-178T	US-PATENT-APPL-SN-608657
			US-PATENT-APPL-SN-721039			US-PATENT-5,047,942-1-CU	US-PATENT-CLASS-29-568
N91-28184* #	c 14	.....	NAS 1.71:LAR-14272-1-CU	N91-31140*	c 05	INT-PATENT-CLASS-B64C-19/00	US-PATENT-CLASS-294-86.4
			NASA-CASE-LAR-14272-1-CU			NASA-CASE-LAR-14212-1-CU	US-PATENT-CLASS-901-30
			US-PATENT-APPL-SN-678553			US-PATENT-APPL-SN-565090	US-PATENT-5,044,063
N91-28186* #	c 16	.....	NAS 1.71:MSC-21793-1			US-PATENT-CLASS-244-120	N91-31755* #
			NASA-CASE-MS-C-21793-1			US-PATENT-CLASS-244-199	c 51
			US-PATENT-APPL-SN-731829			US-PATENT-CLASS-244-75R	.....
N91-28289* #	c 24	.....	NAS 1.71:LEW-15077-2			US-PATENT-CLASS-244-87	NASA-CASE-MS-C-21585-1
			NASA-CASE-LEW-15077-2			US-PATENT-CLASS-244-88	US-PATENT-APPL-SN-493529
			US-PATENT-APPL-SN-735548			US-PATENT-5,050,819	US-PATENT-CLASS-422-101
N91-28321* #	c 25	.....	NAS 1.71:LAR-13388-1	N91-31236*	c 24	INT-PATENT-CLASS-B32B-7/08	US-PATENT-CLASS-422-99
			NASA-CASE-LAR-13388-1			NASA-CASE-NPO-11907-1-NP	US-PATENT-CLASS-435-30
			US-PATENT-APPL-SN-628062			US-PATENT-APPL-SN-410576	US-PATENT-CLASS-73-863.22
N91-28363* #	c 26	.....	NAS 1.71:GSC-13344-1			US-PATENT-CLASS-112-440	US-PATENT-CLASS-73-863.85
			NASA-CASE-GSC-13344-1			US-PATENT-CLASS-428-285	US-PATENT-CLASS-73-863.86
			US-PATENT-APPL-SN-718046			US-PATENT-5,038,693	US-PATENT-5,049,492
N91-28423* #	c 27	.....	NAS 1.71:LEW-14474-1	N91-31258*	c 25	INT-PATENT-CLASS-H01L-21/306	N91-31803* #
			NASA-CASE-LEW-14474-1			NASA-CASE-ARC-11873-2	c 54
			US-PATENT-APPL-SN-720133			US-PATENT-APPL-SN-150169	.....
N91-28424* #	c 27	.....	NAS 1.71:LAR-13645-1			US-PATENT-APPL-SN-347591	INT-PATENT-CLASS-B64G-1/46
			NASA-CASE-LAR-13645-1			US-PATENT-CLASS-156-345	NASA-CASE-MS-C-21629-1
			US-PATENT-APPL-SN-721038			US-PATENT-CLASS-156-643	US-PATENT-APPL-SN-378548
N91-28425* #	c 27	.....	NAS 1.71:LAR-14206-1			US-PATENT-CLASS-156-668	US-PATENT-CLASS-210-748
			NASA-CASE-LAR-14206-1			US-PATENT-CLASS-204-192.32	US-PATENT-CLASS-244-159
			US-PATENT-APPL-SN-429574			US-PATENT-CLASS-437-229	US-PATENT-CLASS-244-163
N91-28444* #	c 28	.....	NAS 1.71:LAR-13832-1			US-PATENT-5,007,983	US-PATENT-CLASS-47-1.4
			NASA-CASE-LAR-13832-1	N91-31307*	c 27	INT-PATENT-CLASS-C08F-283/00	US-PATENT-CLASS-47-62
			US-PATENT-APPL-SN-682151			INT-PATENT-CLASS-C08G-16/00	US-PATENT-CLASS-55-75
N91-28454* #	c 31	.....	NAS 1.71:LAR-14446-1			INT-PATENT-CLASS-C08G-73/10	US-PATENT-5,005,787
			NASA-CASE-LAR-14446-1			NASA-CASE-LAR-13910-2-CU	INT-PATENT-CLASS-G11C-29/00
			US-PATENT-APPL-SN-699288			US-PATENT-APPL-SN-218792	INT-PATENT-CLASS-H03M-13/00
N91-28455* #	c 31	.....	NAS 1.71:LAR-14483-1			US-PATENT-APPL-SN-347558	NASA-CASE-NPO-17394-1-CU
			NASA-CASE-LAR-14483-1			US-PATENT-CLASS-525-422	US-PATENT-APPL-SN-311024
			US-PATENT-APPL-SN-682153			US-PATENT-CLASS-525-471	US-PATENT-CLASS-365-156
N91-28490* #	c 33	.....	NAS 1.71:LAR-14395-1-CU			US-PATENT-5,021,518	US-PATENT-CLASS-365-200
			NASA-CASE-LAR-14395-1-CU			INT-PATENT-CLASS-B23K-20/08	US-PATENT-CLASS-371-40.1
			US-PATENT-APPL-SN-666536	N91-31476*	c 31	NASA-CASE-LAR-14096-1	US-PATENT-5,048,023
N91-28546* #	c 35	.....	NAS 1.71:LAR-14579-1			US-PATENT-APPL-SN-591644	INT-PATENT-CLASS-G05B-19/24
			NASA-CASE-LAR-14579-1			US-PATENT-CLASS-228-107	INT-PATENT-CLASS-G06F-15/46
			US-PATENT-APPL-SN-690198			US-PATENT-CLASS-228-2.5	NASA-CASE-NPO-17401-1-CU
N91-28557* #	c 36	.....	NAS 1.71:GSC-13343-1			US-PATENT-5,050,789	US-PATENT-APPL-SN-172105
			NASA-CASE-GSC-13343-1			INT-PATENT-CLASS-G05B-19/42	US-PATENT-APPL-SN-264326
			US-PATENT-APPL-SN-702529			NASA-CASE-NPO-17134-1-CU	US-PATENT-CLASS-318-568.11
N91-28578* #	c 37	.....	NAS 1.71:GSC-13346-1	N91-31528*	c 33	INT-PATENT-CLASS-G05B-19/42	US-PATENT-CLASS-318-573
			NASA-CASE-GSC-13346-1			US-PATENT-APPL-SN-172105	US-PATENT-CLASS-318-573
			US-PATENT-APPL-SN-691609			US-PATENT-CLASS-318-568.1	US-PATENT-CLASS-318-573
N91-28579* #	c 37	.....	NAS 1.71:GSC-13376-1			US-PATENT-CLASS-318-568.2	US-PATENT-CLASS-318-573
			NASA-CASE-GSC-13376-1			US-PATENT-CLASS-318-573	US-PATENT-5,047,686
			US-PATENT-APPL-SN-677008			US-PATENT-CLASS-364-513	NAS 1.71:LAR-14424-1-SB
N91-28580* #	c 37	.....	NAS 1.71:LAR-14515-1-CU			US-PATENT-CLASS-901-19	NASA-CASE-LAR-14424-1-SB
			NASA-CASE-LAR-14515-1-CU			US-PATENT-5,047,700	US-PATENT-APPL-SN-743468
			US-PATENT-APPL-SN-678551	N91-31529*	c 33	NASA-CASE-LEW-14676-1	
N91-28581* #	c 37	.....	NAS 1.71:GSC-13378-1			US-PATENT-APPL-SN-305675	N91-32167* #
			NASA-CASE-GSC-13378-1			US-PATENT-CLASS-421-209	c 20
			US-PATENT-APPL-SN-710633			US-PATENT-CLASS-421-457	.....
N91-28582* #	c 37	.....	NAS 1.71:GSC-13251-1			US-PATENT-CLASS-505-1	NASA-CASE-LEW-15200-1
			NASA-CASE-GSC-13251-1			US-PATENT-CLASS-505-701	US-PATENT-APPL-SN-722446
			US-PATENT-APPL-SN-714814			US-PATENT-CLASS-505-702	INT-PATENT-CLASS-G01N-25/50
N91-28727* #	c 52	.....	NAS 1.71:GSC-13306-1			US-PATENT-CLASS-505-703	NASA-CASE-LAR-14454-1
			NASA-CASE-GSC-13306-1			US-PATENT-CLASS-505-704	US-PATENT-APPL-SN-426345
			US-PATENT-APPL-SN-674828			US-PATENT-5,049,539	US-PATENT-APPL-SN-593412
N91-28730* #	c 53	.....	NAS 1.71:MSC-21625-1	N91-31530*	c 33	INT-PATENT-CLASS-H04K-3/00	US-PATENT-CLASS-102-200
			NASA-CASE-MS-C-21625-1			NASA-CASE-GSC-12821-2	US-PATENT-CLASS-374-8
			US-PATENT-APPL-SN-716182			US-PATENT-APPL-SN-242254	US-PATENT-CLASS-373-167
							US-PATENT-5,052,817
							N91-32229* #
							c 27
						
							NAS 1.71:LEW-15164-2

			NASA-CASE-LEW-15164-2	N91-32947* #	c 75	NAS 1.71:MSC-21631-1	US-PATENT-CLASS-285-353
			US-PATENT-APPL-SN-766591			NASA-CASE-MSC-21631-1	US-PATENT-CLASS-285-39
N91-32230* #	c 27		NAS 1.71:LEW-15043-1	N92-10008* #	c 02	US-PATENT-APPL-SN-729107	US-PATENT-CLASS-285-912
			NASA-CASE-LEW-15043-1			NAS 1.71:LAR-14520-1-SB	US-PATENT-5,058,929
			US-PATENT-APPL-SN-772181			NASA-CASE-LAR-14520-1-SB	NAS 1.71:LAR-14508-1-CU
N91-32240* #	c 31		NASA-CASE-NPO-16635-1-CU	N92-10035* #	c 16	US-PATENT-APPL-SN-743238	NASA-CASE-LAR-14508-1-CU
			US-PATENT-APPL-SN-858054			NAS 1.71:LAR-13586-1	US-PATENT-APPL-SN-664194
			US-PATENT-CLASS-264-12			NASA-CASE-LAR-13586-1	NAS 1.71:LEW-14973-1
			US-PATENT-CLASS-264-5	N92-10054* #	c 20	US-PATENT-APPL-SN-743469	NASA-CASE-LEW-14973-1
			US-PATENT-CLASS-65-21.4			INT-PATENT-CLASS-F02R-9/52	US-PATENT-APPL-SN-766593
			US-PATENT-CLASS-75-331			NASA-CASE-LEW-14846-1	NAS 1.71:MSC-21613-1
			US-PATENT-CLASS-75-338			US-PATENT-CLASS-60-240	NASA-CASE-MSC-21613-1
			US-PATENT-CLASS-75-340			US-PATENT-CLASS-60-258	US-PATENT-APPL-SN-761566
			US-PATENT-CLASS-75-342			US-PATENT-CLASS-60-39.281	NAS 1.71:NPO-18155-1-CU
			US-PATENT-5,055,240			US-PATENT-5,054,287	NASA-CASE-NPO-18155-1-CU
N91-32489* #	c 36		NAS 1.71:NPO-18243-1-CU	N92-10066* #	c 23	NAS 1.71:LAR-14440-1	US-PATENT-APPL-SN-658477
			NASA-CASE-NPO-18243-1-CU			NASA-CASE-LAR-14440-1	INT-PATENT-CLASS-B05D-5/12
			US-PATENT-APPL-SN-710424			US-PATENT-APPL-SN-650336	INT-PATENT-CLASS-C23F-1/00
N91-32498* #	c 37		INT-PATENT-CLASS-B64D-1/12	N92-10070* #	c 24	INT-PATENT-CLASS-B05D-1/24	NASA-CASE-NPO-17949-1-CU
			NASA-CASE-MSC-21671-1			NASA-CASE-LAR-14231-1	US-PATENT-APPL-SN-545016
			US-PATENT-APPL-SN-603337			US-PATENT-APPL-SN-524109	US-PATENT-CLASS-156-637
			US-PATENT-CLASS-102-378			US-PATENT-CLASS-118-DIG.5	US-PATENT-CLASS-427-343
			US-PATENT-CLASS-294-82.26			US-PATENT-CLASS-156-166	US-PATENT-CLASS-427-62
			US-PATENT-CLASS-89-1.14			US-PATENT-CLASS-156-283	US-PATENT-CLASS-505-1
			US-PATENT-CLASS-89-1.57			US-PATENT-CLASS-427-185	US-PATENT-CLASS-505-728
			US-PATENT-5,046,395			US-PATENT-CLASS-427-195	US-PATENT-5,059,581
N91-32508* #	c 37		INT-PATENT-CLASS-B23K-26/00			US-PATENT-CLASS-427-375	NAS 1.71:LEW-14474-2
			NASA-CASE-MSC-21299-2			US-PATENT-5,057,338	NASA-CASE-LEW-14474-2
			US-PATENT-APPL-SN-176587	N92-10073* #	c 25	INT-PATENT-CLASS-B01J-29/10	US-PATENT-APPL-SN-760670
			US-PATENT-APPL-SN-358029			NASA-CASE-NPO-17480-1-CU	NAS 1.71:LAR-14457-1-CU
			US-PATENT-CLASS-219-121.72			US-PATENT-APPL-SN-508386	NASA-CASE-LAR-14457-1-CU
			US-PATENT-CLASS-219-69.12			US-PATENT-CLASS-502-73	US-PATENT-APPL-SN-520472
			US-PATENT-CLASS-29-558			US-PATENT-5,057,473	NAS 1.71:LAR-14639-1
			US-PATENT-5,051,559	N92-10090* #	c 27	INT-PATENT-CLASS-C01B-31/04	NASA-CASE-LAR-14639-1
N91-32509* #	c 37		NAS 1.71:NPO-18116-1-CU			NASA-CASE-LEW-14698-2	US-PATENT-APPL-SN-651062
			NASA-CASE-NPO-18116-1-CU			US-PATENT-APPL-SN-219016	NAS 1.71:LAR-14487-1
			US-PATENT-APPL-SN-699299			US-PATENT-APPL-SN-443289	NASA-CASE-LAR-14487-1
N91-32510* #	c 37		NAS 1.71:NPO-18134-1-CU			US-PATENT-CLASS-252-502	US-PATENT-APPL-SN-750158
			NASA-CASE-NPO-18134-1-CU			US-PATENT-CLASS-423-439	NAS 1.71:LAR-14538-1
			US-PATENT-APPL-SN-744118			US-PATENT-CLASS-423-448	NASA-CASE-LAR-14538-1
N91-32511* #	c 37		NAS 1.71:LAR-14352-1			US-PATENT-CLASS-423-460	US-PATENT-APPL-SN-736880
			NASA-CASE-LAR-14352-1			US-PATENT-5,059,409	NAS 1.71:LAR-14046-1
			US-PATENT-APPL-SN-735149	N92-10091* #	c 27	NASA-CASE-MSC-21503-1	NASA-CASE-LAR-14046-1
N91-32514* #	c 37		INT-PATENT-CLASS-B61D-15/08			US-PATENT-APPL-SN-443414	US-PATENT-APPL-SN-766597
			NASA-CASE-MSC-21540-1			US-PATENT-CLASS-2-2.1A	NAS 1.71:LAR-14048-1
			US-PATENT-APPL-SN-527508			US-PATENT-CLASS-2-411	NASA-CASE-LAR-14048-1
			US-PATENT-CLASS-105-124			US-PATENT-CLASS-2-424	US-PATENT-APPL-SN-766609
			US-PATENT-CLASS-105-141			US-PATENT-CLASS-428-215	NAS 1.71:ARC-11921-1
			US-PATENT-CLASS-105-142			US-PATENT-CLASS-428-412	NASA-CASE-ARC-11921-1
			US-PATENT-CLASS-105-87			US-PATENT-CLASS-428-419	US-PATENT-APPL-SN-703649
			US-PATENT-CLASS-188-24.11			US-PATENT-CLASS-428-458	NAS 1.71:LAR-13944-1
			US-PATENT-5,058,506			US-PATENT-5,056,156	NASA-CASE-LAR-13944-1
N91-32515* #	c 38		NAS 1.71:SSC-00013-1	N92-10105* #	c 27	NAS 1.71:LAR-14773-1	US-PATENT-APPL-SN-747152
			NASA-CASE-SSC-00013-1			NASA-CASE-LAR-14773-1-CU	NAS 1.71:LAR-14542-1
			US-PATENT-APPL-SN-740675			US-PATENT-APPL-SN-755207	NASA-CASE-LAR-14542-1
N91-32546* #	c 43		INT-PATENT-CLASS-G01S-13/89			NASA-CASE-LAR-14542-1	US-PATENT-APPL-SN-743489
			NASA-CASE-GSC-13212-1	N92-10125* #	c 32	NAS 1.71:NPO-17759-1-CU	NAS 1.71:MSC-21799-1
			US-PATENT-APPL-SN-391896			NASA-CASE-NPO-17759-1-CU	NASA-CASE-MSC-21799-1
			US-PATENT-CLASS-342-191			US-PATENT-APPL-SN-660371	US-PATENT-APPL-SN-759367
			US-PATENT-CLASS-342-25	N92-10126* #	c 32	NAS 1.71:NPO-17836-1-CU	NAS 1.71:LAR-14480-1-CU
			US-PATENT-CLASS-342-26			NASA-CASE-NPO-17836-1-CU	NASA-CASE-LAR-14480-1-CU
			US-PATENT-5,053,778			US-PATENT-APPL-SN-716150	US-PATENT-APPL-SN-705474
N91-32795* #	c 54		INT-PATENT-CLASS-A61F-2/58	N92-10128* #	c 32	INT-PATENT-CLASS-H04N-7/13	NAS 1.71:LAR-14741-1
			INT-PATENT-CLASS-A61F-2/68			NASA-CASE-LEW-14945-2	NASA-CASE-LAR-14741-1
			NASA-CASE-MFS-28426-1			US-PATENT-APPL-SN-540976	US-PATENT-APPL-SN-720153
			US-PATENT-APPL-SN-508154			US-PATENT-APPL-SN-611214	INT-PATENT-CLASS-A61B-8/00
			US-PATENT-CLASS-623-62			US-PATENT-CLASS-358-133	NASA-CASE-LAR-13901-2
			US-PATENT-CLASS-623-63			US-PATENT-CLASS-358-135	US-PATENT-APPL-SN-118993
			US-PATENT-5,021,065			US-PATENT-5,057,917	US-PATENT-APPL-SN-358213
N91-32805* #	c 60		NAS 1.71:NPO-17632-1-CU	N92-10146* #	c 33	NAS 1.71:NPO-17734-1-CU	US-PATENT-APPL-SN-929869
			NASA-CASE-NPO-17632-1-CU			NASA-CASE-NPO-17734-1-CU	US-PATENT-CLASS-128-661.03
			US-PATENT-APPL-SN-712796			US-PATENT-APPL-SN-700830	US-PATENT-5,058,591
N91-32852* #	c 62		INT-PATENT-CLASS-G06G-7/12	N92-10167* #	c 34	NAS 1.71:LEW-15235-1	NAS 1.71:MSC-21775-1
			NASA-CASE-NPO-17664-1-CU			NASA-CASE-LEW-15235-1	NASA-CASE-MSC-21775-1
			US-PATENT-APPL-SN-463720			US-PATENT-APPL-SN-736145	US-PATENT-APPL-SN-760633
			US-PATENT-CLASS-364-513	N92-10182* #	c 35	NAS 1.71:LAR-13823-1	NAS 1.71:MSC-21858-1
			US-PATENT-CLASS-364-807			NASA-CASE-LAR-13823-1	NASA-CASE-MSC-21858-1
			US-PATENT-5,056,037			US-PATENT-APPL-SN-749737	US-PATENT-APPL-SN-765615
N91-32922* #	c 74		INT-PATENT-CLASS-G01B-11/00	N92-10185* #	c 35	INT-PATENT-CLASS-G01L-5/16	NAS 1.71:MSC-21868-1
			NASA-CASE-MSC-21416-1			INT-PATENT-CLASS-G01M-9/00	NASA-CASE-MSC-21868-1
			US-PATENT-APPL-SN-545177			NASA-CASE-LAR-14419-1	US-PATENT-APPL-SN-765273
			US-PATENT-CLASS-356-375			US-PATENT-APPL-SN-584018	NAS 1.71:NPO-18007-1-CU
			US-PATENT-CLASS-356-399			US-PATENT-CLASS-73-147	NASA-CASE-NPO-18007-1-CU
			US-PATENT-5,052,807			US-PATENT-CLASS-73-862.04	US-PATENT-APPL-SN-703238
N91-32923* #	c 74		NAS 1.71:NPO-18095-1-CU			US-PATENT-CLASS-73-862.65	NAS 1.71:MSC-21759-1
			NASA-CASE-NPO-18095-1-CU			US-PATENT-5,056,361	NASA-CASE-MSC-21759-1
			US-PATENT-APPL-SN-665509	N92-10186* #	c 35	INT-PATENT-CLASS-B43L-13/24	US-PATENT-APPL-SN-746581
N91-32924* #	c 74		NAS 1.71:NPO-18194-1-CU			NASA-CASE-GSC-13240-1	NAS 1.71:LAR-14763-1
			NASA-CASE-NPO-18194-1-CU			US-PATENT-APPL-SN-571344	NASA-CASE-LAR-14763-1
			US-PATENT-APPL-SN-700379			US-PATENT-CLASS-33-19.2	US-PATENT-APPL-SN-736667
N91-32925* #	c 74		NAS 1.71:NPO-18278-1-CU			US-PATENT-CLASS-33-23.02	NAS 1.71:LAR-14567-1-CU
			NASA-CASE-NPO-18278-1-CU			US-PATENT-5,058,281	NASA-CASE-LAR-14567-1-CU
			US-PATENT-APPL-SN-747059	N92-10197* #	c 37	INT-PATENT-CLASS-F16L-15/00	US-PATENT-APPL-SN-773376
N91-32926* #	c 74		NAS 1.71:NPO-18317-1-CU			NASA-CASE-MSC-21434-1	NAS 1.71:LAR-14168-1
			NASA-CASE-NPO-18317-1-CU			US-PATENT-APPL-SN-433881	NASA-CASE-LAR-14168-1
			US-PATENT-APPL-SN-744197			US-PATENT-CLASS-285-23	US-PATENT-APPL-SN-717755

ACCESSION NUMBER INDEX

N92-17892

N92-12438* #	c 60	NAS 1.71:NPO-17998-1-CU NASA-CASE-NPO-17998-1-CU US-PATENT-APPL-SN-653578	US-PATENT-APPL-SN-610883 US-PATENT-CLASS-264-63 US-PATENT-CLASS-423-630 US-PATENT-CLASS-501-123 US-PATENT-CLASS-501-127 US-PATENT-5,066,625	US-PATENT-APPL-SN-331551 US-PATENT-CLASS-358-160 US-PATENT-CLASS-358-183 US-PATENT-CLASS-358-22 US-PATENT-5,067,019
N92-15081*	c 14	INT-PATENT-CLASS-F41B-6/00 NASA-CASE-MFS-28323-1 US-PATENT-APPL-SN-429515 US-PATENT-CLASS-124-3 US-PATENT-CLASS-244-63 US-PATENT-CLASS-505-1 US-PATENT-CLASS-89-8 US-PATENT-5,017,549	N92-16123* c 27	INT-PATENT-CLASS-G02B-1/01 INT-PATENT-CLASS-G02B-1/12 INT-PATENT-CLASS-G02B-5/23 NASA-CASE-NPO-17612-1-CU US-PATENT-APPL-SN-480385 US-PATENT-CLASS-359-11 US-PATENT-CLASS-359-240 US-PATENT-CLASS-359-241 US-PATENT-5,062,693
N92-15114*	c 18	INT-PATENT-CLASS-F41H-5/04 NASA-CASE-MSC-21420-1 US-PATENT-APPL-SN-516573 US-PATENT-CLASS-244-158R US-PATENT-CLASS-89-36.02 US-PATENT-CLASS-89-36.11 US-PATENT-5,067,388	N92-16161* c 31	INT-PATENT-CLASS-H04N-13/00 NASA-CASE-NPO-18028-1-CU US-PATENT-APPL-SN-608452 US-PATENT-CLASS-358-88 US-PATENT-CLASS-358-91 US-PATENT-CLASS-358-92 US-PATENT-5,065,236
N92-15122*	c 20	INT-PATENT-CLASS-F02K-9/58 NASA-CASE-MSC-21542-1 US-PATENT-APPL-SN-470480 US-PATENT-CLASS-60-204 US-PATENT-CLASS-60-240 US-PATENT-CLASS-60-243 US-PATENT-CLASS-60-259 US-PATENT-5,063,734	N92-16162* c 31	INT-PATENT-CLASS-G02B-23/00 INT-PATENT-CLASS-G02B-3/00 NASA-CASE-ARC-11892-1-SB US-PATENT-APPL-SN-472939 US-PATENT-CLASS-359-362 US-PATENT-CLASS-359-572 US-PATENT-CLASS-359-744 US-PATENT-5,040,886
N92-15203*	c 31	INT-PATENT-CLASS-F17C-11/00 NASA-CASE-NPO-17569-1-CU US-PATENT-APPL-SN-545236 US-PATENT-CLASS-62-461 US-PATENT-CLASS-624-3.2 US-PATENT-CLASS-624-467 US-PATENT-CLASS-624-500 US-PATENT-CLASS-624-51.2 US-PATENT-5,063,747	N92-16196* c 33	INT-PATENT-CLASS-G02B-27/64 INT-PATENT-CLASS-G02B-7/02 NASA-CASE-ARC-11916-1-SB US-PATENT-APPL-SN-531373 US-PATENT-CLASS-359-557 US-PATENT-CLASS-359-813 US-PATENT-CLASS-359-819 US-PATENT-5,077,622
N92-15331*	c 33	INT-PATENT-CLASS-H04R-15/00 NASA-CASE-GSC-13369-1 US-PATENT-APPL-SN-645972 US-PATENT-CLASS-310-26 US-PATENT-CLASS-310-265 US-PATENT-CLASS-310-83 US-PATENT-CLASS-367-156 US-PATENT-5,079,460	N92-17584* # c 37	NAS 1.71:MFS-28589-1 NASA-CASE-MFS-28589-1 US-PATENT-APPL-SN-813628
N92-15620* #	c 62	INT-PATENT-CLASS-G06F-15/20 INT-PATENT-CLASS-G06G-7/48 NASA-CASE-NPO-17716-1-CU US-PATENT-APPL-SN-357759 US-PATENT-CLASS-364-402 US-PATENT-5,072,379	N92-17674* # c 31	NAS 1.71:NPO-18366-1-CU NASA-CASE-NPO-18366-1-CU US-PATENT-APPL-SN-781520
N92-16007*	c 16	INT-PATENT-CLASS-B64G-1/14 NASA-CASE-MSC-21562-1 US-PATENT-APPL-SN-658911 US-PATENT-CLASS-244-121 US-PATENT-CLASS-244-129.4 US-PATENT-CLASS-244-158R US-PATENT-5,071,091	N92-17675* # c 74	NAS 1.71:NPO-18379-1-CU NASA-CASE-NPO-18379-1-CU US-PATENT-APPL-SN-797569
N92-16025*	c 24	NASA-CASE-LEW-15077-1 US-PATENT-APPL-SN-608493 US-PATENT-CLASS-118-416 US-PATENT-CLASS-252-502 US-PATENT-CLASS-423-447.2 US-PATENT-CLASS-423-448 US-PATENT-CLASS-423-460 US-PATENT-CLASS-427-294 US-PATENT-CLASS-427-443.2 US-PATENT-5,073,412	N92-17676* # c 27	NAS 1.71:LAR-14608-1 NASA-CASE-LAR-14608-1 US-PATENT-APPL-SN-752246
N92-16026*	c 24	INT-PATENT-CLASS-B32B-5/14 NASA-CASE-ARC-11888-1 US-PATENT-APPL-SN-298149 US-PATENT-CLASS-428-307.7 US-PATENT-CLASS-428-325 US-PATENT-CLASS-428-446 US-PATENT-CLASS-428-920 US-PATENT-CLASS-501-39 US-PATENT-CLASS-501-54 US-PATENT-5,079,082	N92-17677* # c 37	NAS 1.71:LAR-14169-1 NASA-CASE-LAR-14169-1 US-PATENT-APPL-SN-791728
N92-16043*	c 25	NASA-CASE-LAR-14481-1 US-PATENT-APPL-SN-035430 US-PATENT-APPL-SN-516489 US-PATENT-CLASS-528-125 US-PATENT-CLASS-528-126 US-PATENT-CLASS-528-128 US-PATENT-CLASS-528-172 US-PATENT-CLASS-528-173 US-PATENT-CLASS-528-179 US-PATENT-5,061,783	N92-17678* # c 37	NAS 1.71:LEW-15216-1 NASA-CASE-LEW-15216-1 US-PATENT-APPL-SN-826547
N92-16121*	c 27	INT-PATENT-CLASS-H01B-1/00 NASA-CASE-NPO-17826-1-CU US-PATENT-APPL-SN-479485 US-PATENT-CLASS-252-500 US-PATENT-CLASS-252-518 US-PATENT-CLASS-526-258 US-PATENT-CLASS-528-22 US-PATENT-5,066,748	N92-17679* # c 38	NAS 1.71:LAR-14626-1 NASA-CASE-LAR-14626-1 US-PATENT-APPL-SN-751489
N92-16122*	c 27	INT-PATENT-CLASS-C04B-35/10 NASA-CASE-LEW-14984-1	N92-17860* # c 61	NAS 1.71:MSC-21415-1-SB NASA-CASE-MSC-21415-1-SB US-PATENT-APPL-SN-749819
			N92-17861* # c 24	NAS 1.71:LEW-15241-1 NASA-CASE-LEW-15241-1 US-PATENT-APPL-SN-798464
			N92-17862* # c 36	NAS 1.71:NPO-17763-1-CU NASA-CASE-NPO-17763-1-CU US-PATENT-APPL-SN-782009
			N92-17863* # c 74	NAS 1.71:MSC-21806-1 NASA-CASE-MSC-21806-1 US-PATENT-APPL-SN-780513
			N92-17864* # c 74	NAS 1.71:NPO-18593-1-CU NASA-CASE-NPO-18593-1-CU US-PATENT-APPL-SN-812901
			N92-17865* # c 33	NAS 1.71:NPO-18454-1-CU NASA-CASE-NPO-18454-1-CU US-PATENT-APPL-SN-781521
			N92-17866* # c 54	NAS 1.71:MFS-28633-1 NASA-CASE-MFS-28633-1 US-PATENT-APPL-SN-813629
			N92-17870* # c 24	NAS 1.71:MFS-28431-1 NASA-CASE-MFS-28431-1 US-PATENT-APPL-SN-812084
			N92-17872* # c 37	NAS 1.71:MSC-21898-1 NASA-CASE-MSC-21898-1 US-PATENT-APPL-SN-780512
			N92-17882* # c 23	NAS 1.71:LEW-14345-6 NASA-CASE-LEW-14345-6 US-PATENT-APPL-SN-822240
			N92-17884* # c 60	NAS 1.71:NPO-17781-1-CU NASA-CASE-NPO-17781-1-CU US-PATENT-APPL-SN-744042
			N92-17888* # c 34	NAS 1.71:LAR-14594-1 NASA-CASE-LAR-14594-1 US-PATENT-APPL-SN-748225
			N92-17892* # c 74	NAS 1.71:NPO-18146-1-CU NASA-CASE-NPO-18146-1-CU

N92-17895* #	c 63	US-PATENT-APPL-SN-786618	N92-21712* #	c 32	US-PATENT-CLASS-524-495	N92-22036* #	c 37	US-PATENT-CLASS-437-945
		NAS 1.71:NPO-17918-2-CU			US-PATENT-CLASS-525-422			US-PATENT-5,094,974
		NASA-CASE-NPO-17918-2-CU			US-PATENT-CLASS-525-432			INT-PATENT-CLASS-G06F-15/00
N92-17899* #	c 36	US-PATENT-APPL-SN-786499	N92-21712* #	c 32	US-PATENT-CLASS-525-903	N92-22036* #	c 37	NASA-CASE-NPO-17800-1-CU
		NAS 1.71:NPO-18386-1-CU			US-PATENT-5,098,961			US-PATENT-APPL-SN-522949
		NASA-CASE-NPO-18386-1-CU			INT-PATENT-CLASS-H03D-1/06			US-PATENT-CLASS-395-86
N92-17902* #	c 25	US-PATENT-APPL-SN-751440	N92-21712* #	c 32	NASA-CASE-NPO-17628-1-CU	N92-22037* #	c 44	US-PATENT-CLASS-395-95
		NAS 1.71:LEW-15359-1			US-PATENT-APPL-SN-350813			US-PATENT-CLASS-901-6
		NASA-CASE-LEW-15359-1			US-PATENT-CLASS-329-310			US-PATENT-5,086,400
N92-17907* #	c 33	US-PATENT-APPL-SN-797484	N92-21712* #	c 32	US-PATENT-CLASS-375-80	N92-22037* #	c 44	INT-PATENT-CLASS-H01C-31/58
		NAS 1.71:NPO-17994-1-CU			US-PATENT-CLASS-375-94			NASA-CASE-LEW-14731-1
		NASA-CASE-NPO-17994-1-CU			US-PATENT-4,947,408			US-PATENT-APPL-SN-503486
N92-17909* #	c 34	US-PATENT-APPL-SN-791759	N92-21723* #	c 35	INT-PATENT-CLASS-B23B-39/00	N92-22038* #	c 35	US-PATENT-CLASS-136-253
		NAS 1.71:LAR-14547-1			NASA-CASE-LEW-14880-1			US-PATENT-5,080,724
		NASA-CASE-LAR-14547-1			US-PATENT-APPL-SN-376738			INT-PATENT-CLASS-B23H-9/00
N92-17910* #	c 54	US-PATENT-APPL-SN-748224	N92-21723* #	c 35	US-PATENT-CLASS-408-14	N92-22038* #	c 35	NASA-CASE-LEW-14967-2
		NAS 1.71:MSC-21752-1			US-PATENT-CLASS-408-16			US-PATENT-APPL-SN-531433
		NASA-CASE-MS-21752-1			US-PATENT-CLASS-408-241S			US-PATENT-APPL-SN-685062
N92-17913* #	c 31	US-PATENT-APPL-SN-775404	N92-21724* #	c 34	US-PATENT-5,096,340	N92-22039* #	c 35	US-PATENT-CLASS-219-69.17
		NAS 1.71:MSC-21776-1			INT-PATENT-CLASS-B05B-1/02			US-PATENT-CLASS-374-29
		NASA-CASE-MS-21776-1			INT-PATENT-CLASS-B05B-1/14			US-PATENT-CLASS-40-703
N92-18561* #	c 24	US-PATENT-APPL-SN-772763	N92-21724* #	c 34	NASA-CASE-NPO-17625-1-CU	N92-22039* #	c 35	US-PATENT-5,086,204
		NASA-CASE-NPO-17736-2-CU			US-PATENT-APPL-SN-531434			INT-PATENT-CLASS-G01B-5/02
		US-PATENT-APPL-SN-392166			US-PATENT-CLASS-239-533.13			NASA-CASE-MS-21700-1
N92-19486* #	c 25	US-PATENT-APPL-SN-677373	N92-21725* #	c 24	US-PATENT-CLASS-239-543	N92-22040* #	c 76	US-PATENT-APPL-SN-640775
		US-PATENT-CLASS-437-200			US-PATENT-CLASS-239-546			US-PATENT-CLASS-33-10
		US-PATENT-CLASS-437-40			US-PATENT-CLASS-239-552			US-PATENT-CLASS-33-15D
N92-21499* #	c 76	US-PATENT-CLASS-437-907	N92-21725* #	c 24	US-PATENT-CLASS-239-602	N92-22040* #	c 76	US-PATENT-CLASS-33-520
		US-PATENT-CLASS-437-935			US-PATENT-5,080,286			US-PATENT-CLASS-33-644
		US-PATENT-CLASS-437-942			NASA-CASE-LEW-14999-1			US-PATENT-5,083,378
N92-21500* #	c 37	US-PATENT-CLASS-437-973	N92-21725* #	c 24	US-PATENT-APPL-SN-560926	N92-22040* #	c 76	NASA-CASE-NPO-17812-2-CU
		US-PATENT-5,075,243			US-PATENT-CLASS-428-212			US-PATENT-APPL-SN-387928
		NAS 1.71:MSC-21936-1			US-PATENT-CLASS-428-213			US-PATENT-APPL-SN-642765
N92-21586* #	c 76	NASA-CASE-MS-21936-1	N92-21726* #	c 37	US-PATENT-CLASS-428-426	N92-22041* #	c 76	US-PATENT-CLASS-156-643
		US-PATENT-APPL-SN-728901			US-PATENT-CLASS-428-432			US-PATENT-CLASS-357-5
		NASA-CASE-NPO-17074-2-CU			US-PATENT-CLASS-428-433			US-PATENT-CLASS-427-419.1
N92-21587* #	c 05	US-PATENT-APPL-SN-102934	N92-21726* #	c 37	US-PATENT-CLASS-428-469	N92-22041* #	c 76	US-PATENT-CLASS-427-419.2
		US-PATENT-APPL-SN-311376			US-PATENT-CLASS-428-472.2			US-PATENT-CLASS-427-62
		US-PATENT-CLASS-156-DIG.64			US-PATENT-5,080,977			US-PATENT-CLASS-427-63
N92-21588* #	c 02	US-PATENT-CLASS-156-608	N92-21726* #	c 37	INT-PATENT-CLASS-F16B-19/00	N92-22041* #	c 76	US-PATENT-5,100,694
		US-PATENT-CLASS-156-617.1			INT-PATENT-CLASS-F16B-35/02			INT-PATENT-CLASS-H01L-27/12
		US-PATENT-CLASS-156-620.1			NASA-CASE-MS-21580-1			INT-PATENT-CLASS-H01L-39/22
N92-21589* #	c 54	US-PATENT-CLASS-156-620.3	N92-21727* #	c 37	US-PATENT-APPL-SN-648772	N92-22042* #	c 33	NASA-CASE-NPO-17812-3-CU
		US-PATENT-CLASS-156-620.4			US-PATENT-CLASS-411-354			US-PATENT-APPL-SN-387928
		US-PATENT-5,092,956			US-PATENT-CLASS-411-385			US-PATENT-APPL-SN-641798
N92-21710* #	c 35	INT-PATENT-CLASS-E05C-5/02	N92-21727* #	c 37	US-PATENT-CLASS-411-65	N92-22042* #	c 33	US-PATENT-CLASS-357-4
		NASA-CASE-GSC-13200-1			US-PATENT-CLASS-411-901			US-PATENT-CLASS-357-5
		US-PATENT-APPL-SN-654454			US-PATENT-CLASS-411-908			US-PATENT-CLASS-505-862
N92-21711* #	c 27	US-PATENT-CLASS-292-DIG.39	N92-21727* #	c 37	US-PATENT-5,090,857	N92-22043* #	c 37	US-PATENT-CLASS-505-871
		US-PATENT-CLASS-292-110			NASA-CASE-MS-21748-1			US-PATENT-5,099,294
		US-PATENT-5,087,088			US-PATENT-APPL-SN-657598			INT-PATENT-CLASS-H02N-1/08
N92-21711* #	c 27	INT-PATENT-CLASS-G01L-19/04	N92-21728* #	c 37	US-PATENT-CLASS-277-3	N92-22043* #	c 37	NASA-CASE-NPO-17684-1-CU
		NASA-CASE-LAR-14340-1-CU			US-PATENT-CLASS-277-34			US-PATENT-APPL-SN-443522
		US-PATENT-APPL-SN-575695			US-PATENT-CLASS-277-34.3			US-PATENT-CLASS-310-308
N92-21711* #	c 05	US-PATENT-CLASS-73-147	N92-21728* #	c 37	US-PATENT-CLASS-285-223	N92-22043* #	c 37	US-PATENT-CLASS-310-309
		US-PATENT-CLASS-73-182			US-PATENT-CLASS-285-346			US-PATENT-5,084,645
		US-PATENT-CLASS-73-708			US-PATENT-CLASS-285-910			INT-PATENT-CLASS-F16J-15/46
N92-21711* #	c 05	US-PATENT-5,076,103	N92-21728* #	c 37	US-PATENT-CLASS-285-97	N92-22043* #	c 37	NASA-CASE-LEW-15085-1
		INT-PATENT-CLASS-B64C-21/10			US-PATENT-5,102,150			US-PATENT-APPL-SN-610879
		NASA-CASE-LAR-13870-1-CU			INT-PATENT-CLASS-B60T-13/04			US-PATENT-CLASS-239-265.11
N92-21711* #	c 05	US-PATENT-APPL-SN-429516	N92-21728* #	c 37	NASA-CASE-GSC-13376-1	N92-22043* #	c 37	US-PATENT-CLASS-277-229
		US-PATENT-CLASS-244-198			US-PATENT-APPL-SN-677008			US-PATENT-CLASS-277-234
		US-PATENT-CLASS-244-200			US-PATENT-CLASS-188-171			US-PATENT-CLASS-277-3
N92-21711* #	c 02	US-PATENT-CLASS-244-212	N92-21728* #	c 37	US-PATENT-CLASS-188-82.4	N92-22043* #	c 37	US-PATENT-CLASS-277-34
		US-PATENT-CLASS-244-215			US-PATENT-CLASS-188-82.9			US-PATENT-CLASS-277-76
		US-PATENT-5,088,665			US-PATENT-5,103,941			US-PATENT-5,082,293
N92-21711* #	c 02	INT-PATENT-CLASS-G01M-9/00	N92-21999* #	c 18	INT-PATENT-CLASS-B64G-1/62	N92-22044* #	c 27	NASA-CASE-LAR-14346-1
		NASA-CASE-LAR-13742-1			NAS 1.71:MSC-21536-1			US-PATENT-APPL-SN-250480
		US-PATENT-APPL-SN-621144			NASA-CASE-MS-21536-1			US-PATENT-APPL-SN-434195
N92-21711* #	c 02	US-PATENT-APPL-SN-621144	N92-21999* #	c 18	US-PATENT-APPL-SN-458476	N92-22044* #	c 27	US-PATENT-CLASS-525-275
		US-PATENT-CLASS-116-201			US-PATENT-CLASS-244-160			US-PATENT-CLASS-525-421
		US-PATENT-CLASS-116-207			US-PATENT-CLASS-244-162			US-PATENT-CLASS-525-422
N92-21711* #	c 54	US-PATENT-CLASS-73-147	N92-22033* #	c 32	US-PATENT-CLASS-244-163	N92-22044* #	c 27	US-PATENT-CLASS-526-248
		US-PATENT-5,070,729			US-PATENT-5,064,151			US-PATENT-CLASS-526-249
		NASA-CASE-MS-21868-1			INT-PATENT-CLASS-G06G-7/12			US-PATENT-CLASS-526-262
N92-21711* #	c 54	US-PATENT-APPL-SN-765273	N92-22033* #	c 32	NASA-CASE-NPO-17564-1-CU	N92-22044* #	c 27	US-PATENT-5,081,198
		US-PATENT-CLASS-136-245			US-PATENT-APPL-SN-414811			
		US-PATENT-CLASS-136-246			US-PATENT-CLASS-307-201			
N92-21711* #	c 54	US-PATENT-CLASS-165-1	N92-22033* #	c 32	US-PATENT-CLASS-364-807	N92-22044* #	c 27	
		US-PATENT-CLASS-165-41			US-PATENT-CLASS-395-24			
		US-PATENT-CLASS-165-48.2			US-PATENT-5,101,361			
N92-21711* #	c 54	US-PATENT-CLASS-165-86	N92-22033* #	c 32	US-PATENT-5,101,361	N92-22044* #	c 27	
		US-PATENT-CLASS-165-904			INT-PATENT-CLASS-G01B-9/02			
		US-PATENT-5,086,828			NASA-CASE-NPO-17913-1-CU			
N92-21711* #	c 35	INT-PATENT-CLASS-G01F-9/00	N92-22034* #	c 74	US-PATENT-APPL-SN-527509	N92-22044* #	c 27	
		NASA-CASE-LAR-13508-1			US-PATENT-CLASS-356-351			
		US-PATENT-APPL-SN-146939			US-PATENT-CLASS-356-360			
N92-21711* #	c 35	US-PATENT-CLASS-374-124	N92-22034* #	c 74	US-PATENT-CLASS-356-363	N92-22044* #	c 27	
		US-PATENT-CLASS-374-135			US-PATENT-5,080,490			
		US-PATENT-CLASS-73-147			NASA-CASE-NPO-17724-1-CU			
N92-21711* #	c 27	US-PATENT-CLASS-73-204.11	N92-22035* #	c 76	US-PATENT-APPL-SN-488578	N92-22044* #	c 27	
		US-PATENT-5,085,073			US-PATENT-CLASS-148-DIG.22			
		INT-PATENT-CLASS-C08J-5/08			US-PATENT-CLASS-437-105			
N92-21711* #	c 27	INT-PATENT-CLASS-C08K-3/04	N92-22035* #	c 76	US-PATENT-CLASS-437-107	N92-22044* #	c 27	
		INT-PATENT-CLASS-C08L-79/08			US-PATENT-CLASS-437-133			
		NASA-CASE-LAR-13925-1			US-PATENT-CLASS-437-85			
N92-21711* #	c 27	US-PATENT-APPL-SN-301925	N92-22035* #	c 76	US-PATENT-CLASS-437-936	N92-22044* #	c 27	

PUBLIC AVAILABILITY OF COPIES OF PATENTS AND PATENT APPLICATIONS

Copies of U.S. patents may be purchased directly from the U.S. Patent and Trademark Office, Washington, D.C. 20231 at \$1.50 per copy. When ordering patents, the U.S. Patent Number should be used, and payment must be remitted in advance, preferably by money order or check payable to the Commissioner of Patents and Trademarks. Prepaid purchase coupons for ordering are also available from the Patent and Trademark Office.

NASA patent application specifications are sold in paper copy and microfiche by the National Technical Information Service. The US-Patent-Appl-SN-number should be used in ordering either paper copy or microfiche from NTIS.

LICENSES FOR COMMERCIAL USE: INQUIRIES AND APPLICATIONS FOR LICENSE

NASA inventions, abstracted in *NASA PAB*, are available for nonexclusive or exclusive licensing in accordance with the NASA Patent Licensing Regulations. It is significant that all licenses for NASA inventions shall be by express written instruments and that no license will be granted or implied in a NASA invention except as provided in the NASA Patent Licensing Regulations.

Inquiries concerning the NASA Patent Licensing Program or the availability of licenses for the commercial use of NASA-owned inventions covered by U.S. patents or pending applications for patent should be forwarded to the NASA Patent Counsel of the NASA installation having cognizance of the specific invention, or the Associate General Counsel for Intellectual Property, code GP, National Aeronautics and Space Administration, Washington, D.C. 20546. Inquiries should refer to the NASA Case Number, the Title of the Invention, and the U.S. Patent Number or the U.S. Application Serial Number assigned to the invention as shown in *NASA PAB*.

The NASA Patent Counsel having cognizance of the invention is determined by the first three letters or prefix of the NASA Case Number assigned to the invention. The addresses of NASA Patent Counsels are listed alongside the NASA Case Number prefix letters in the following table.

STANDING ORDER SUBSCRIPTIONS

NASA SP-7039, Section 2 is available from the National Technical Information Service (NTIS) on standing order subscription as PB92-911100, at price code A10. Standing order subscriptions do not terminate at the end of a year, as do regular subscriptions, but continue indefinitely unless specifically terminated by the subscriber.

**NASA Case
Number
Prefix Letters**

**Address of Cognizant
NASA Patent Counsel**

ARC-xxxxx
XAR-xxxxx

Ames Research Center
Mail Code: 200-11A
Moffett Field, California 94035
Telephone: (415) 694-5104

ERC-xxxxx
XER-xxxxx
HQN-xxxxx
XHQ-xxxxx

NASA Headquarters
Mail Code: GP
Washington, D.C. 20546
Telephone: (202) 453-2417

GSC-xxxxx
XGS-xxxxx

Goddard Space Flight Center
Mail Code: 204
Greenbelt, Maryland 20771
Telephone: (301) 286-7351

KSC-xxxxx
XKS-xxxxx

John F. Kennedy Space Center
Mail Code: PT-PAT
Kennedy Space Center, Florida 32899
Telephone: (305) 867-2544

LAR-xxxxx
XLA-xxxxx

Langley Research Center
Mail Code: 279
Hampton, Virginia 23365
Telephone: (804) 865-3725

LEW-xxxxx
XLE-xxxxx

Lewis Research Center
Mail Code: 500-318
21000 Brookpark Road
Cleveland, Ohio 44135
Telephone: (216) 433-5753

MSC-xxxxx
XMS-xxxxx

Lyndon B. Johnson Space Center
Mail Code: AL3
Houston, Texas 77058
Telephone: (713) 483-4871

MFS-xxxxx
XMF-xxxxx

George C. Marshall Space Flight Center
Mail Code: CC01
Huntsville, Alabama 35812
Telephone: (205) 544-0024

NPO-xxxxx
XNP-xxxxx
• FRC-xxxxx
XFR-xxxxx
WOO-xxxxx

NASA Resident Legal Office
Mail Code: 180-801
4800 Oak Grove Drive
Pasadena, California 91103
Telephone: (818) 354-2700

PATENT LICENSING REGULATIONS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

14 CFR Part 1245

Licensing of NASA Inventions

AGENCY: National Aeronautics and Space Administration

ACTION: Interim regulation with comments requested.

SUMMARY: The National Aeronautics and Space Administration (NASA) is revising its patent licensing regulations to conform with Pub. L. 96-517. This interim regulation provides policies and procedures applicable to the licensing of federally owned inventions in the custody of the National Aeronautics and Space Administration, and implements Pub. L. 96-517. The object of this subpart is to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

EFFECTIVE DATE: July 1, 1981. Comments must be received in writing by December 2, 1981. Unless a notice is published in the **Federal Register** after the comment period indicating changes to be made, this interim regulation shall become a final regulation.

ADDRESS: Mr. John G. Mannix, Director of Patent Licensing, GP-4, NASA, Washington, D.C. 20546

FOR FURTHER INFORMATION CONTACT:

Mr. John G. Mannix, (202) 755-3954.

SUPPLEMENTARY INFORMATION:

PART 1245—PATENTS AND OTHER INTELLECTUAL PROPERTY RIGHTS

Subpart 2 of Part 1245 is revised to read as follows:

Subpart 2—Licensing of NASA Inventions

Sec.

1245.200 Scope of subpart.

1245.201 Policy and objective.

1245.202 Definitions.

1245.203 Authority to grant licenses.

Restrictions and Conditions

1245.204 All licenses granted under this subpart.

Types of Licenses

1245.205 Nonexclusive licenses.

1245.206 Exclusive and partially exclusive licenses.

Procedures

1245.207 Application for a license.

1245.208 Processing applications.

1245.209 Notice to Attorney General.

1245.210 Modification and termination of licenses.

1245.211 Appeals.

1245.212 Protection and administration of inventions.

1245.213 Transfer of custody.

1245.214 Confidentiality of information.

Authority: 35 U.S.C. Section 207 and 208.94 Stat 3023 and 3024.

Subpart 2—Licensing of NASA Inventions

§ 1245.200 Scope of subpart.

This subpart prescribes the terms, conditions and procedures upon which a NASA invention may be licensed. It does not affect licenses which (a) were in effect prior to July 1, 1981; (b) may exist at the time of the Government's acquisition of title to the invention, including those resulting from the allocation of rights to inventions made under Government research and development contracts; (c) are the result of an authorized exchange of rights in the settlement of patent disputes; or (d) are otherwise authorized by law or treaty.

§ 1245.201 Policy and objective.

It is the policy and objective of this subpart to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

§ 1245.202 Definitions

(a) "Federally owned invention" means an invention, plant, or design which is covered by a patent, or patent application in the United States, or a patent, patent application, plant variety protection, or other form of protection, in a foreign country, title to which has been assigned to or otherwise vested in the United States Government.

(b) "Federal agency" means an executive department, military department, Government corporation, or independent establishment, except the Tennessee Valley Authority, which has custody of a Federally owned invention.

(c) "NASA Invention" means a Federally owned invention with respect to which NASA maintains custody and administration, in whole or in part, of the right, title or interest in such invention on behalf of the United States Government.

(d) "Small business firm" means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of these regulations, the size standard for small business concerns involved in Government procurement, contained in 13 CFR 121.3-8, and in subcontracting, contained in 13 CFR 121.3-12, will be used.

(e) "Practical application" means to manufacture in the case of a composition or product, to practice in the case of a process or method, or to operate in the case of a machine or system; and, in each case, under such condition, as to establish that the invention is being utilized and that its benefits are to the extent permitted by law or Government regulations available to the public on reasonable terms.

(f) "United States" means the United States of America, its territories and possessions, the District of Columbia, and the Commonwealth of Puerto Rico.

§ 1245.203 Authority to grant licenses.

NASA inventions shall be made available for licensing as deemed appropriate in the public interest. NASA may grant nonexclusive, partially exclusive, or exclusive licenses thereto under this subpart on inventions in its custody.

Restrictions and Conditions

§ 1245.204 All licenses granted under this subpart.

(a) **Restrictions.** (1) A license may be granted only if the applicant has supplied NASA with a satisfactory plan for development or marketing of the invention, or both, and with information about the applicant's capability to fulfill the plan.

(2) A license granting rights to use or sell under a NASA invention in the United States shall normally be granted only to a licensee who agrees that any products embodying the invention or produced through the use of the invention will be manufactured substantially in the United States.

(b) **Conditions.** Licenses shall contain such terms and conditions as NASA determines are appropriate for the protection of the interests of the Federal Government and the public and are not in conflict with law or this subpart. The following terms and conditions apply to any license:

(1) The duration of the license shall be for a period specified in the license agreement, unless sooner terminated in accordance with this subpart.

(2) The license may be granted for all or less than all fields of use of the invention or in specified geographical areas, or both.

(3) The license may extend to subsidiaries of the licensee or other parties if provided for in the license but shall be nonassignable without approval of NASA, except to the successor of that part of the licensee's business to which the invention pertains.

(4) The license may provide the licensee the right to grant sublicenses under the license, subject to the approval of NASA. Each sublicense shall make reference to the license, including the rights retained by the Government, and a copy of such sublicense shall be furnished to NASA.

(5) The license shall require the licensee to carry out the plan for development or marketing of the invention, or both, to bring the invention to practical application within a period specified in the license, and to continue to make the benefits of the invention reasonably accessible to the public.

PATENT LICENSING REGULATIONS

(6) The license shall require the licensee to report periodically on the utilization or efforts at obtaining utilization that are being made by the licensee, with particular reference to the plan submitted.

(7) All licenses shall normally require royalties or other consideration.

(8) Where an agreement is obtained pursuant to § 1245.204(a)(2) that any products embodying the invention or produced through use of the invention will be manufactured substantially in the United States, the license shall recite such agreement.

(9) The license shall provide for the right of NASA to terminate the license, in whole or in part, if:

(i) NASA determines that the licensee is not executing the plan submitted with its request for a license and the licensee cannot otherwise demonstrate to the satisfaction of NASA that it has taken or can be expected to take within a reasonable time effective steps to achieve practical application of the invention;

(ii) NASA determines that such action is necessary to meet requirements for public use specified by Federal regulations issued after the date of the license and such requirements are not reasonably satisfied by the licensee;

(iii) The licensee has willfully made a false statement of or willfully omitted a material fact in the license application or in any report required by the license agreement; or

(iv) The licensee commits a substantial breach of a covenant or agreement contained in the license.

(10) The license may be modified or terminated, consistent with this subpart, upon mutual agreement of NASA and the licensee.

(11) Nothing relating to the grant of a license, nor the grant itself, shall be construed to confer upon any person any immunity from or defenses under the antitrust laws or from a charge of patent misuse, and the acquisition and use of rights pursuant to this subpart shall not be immunized from the operation of state or Federal law by reason of the source of the grant.

Types of Licenses

§ 1245.205 Nonexclusive licenses.

(a) *Availability of licenses.* Nonexclusive licenses may be granted under NASA inventions without publication of availability or notice of a prospective license.

(b) *Conditions.* In addition to the provisions of § 1245.204, the nonexclusive license may also provide that, after termination of a period specified in the license agreement, NASA may restrict the license to the fields of use or geographic areas, or both, in which the licensee has brought the invention to practical application and continues to make the benefits of the invention reasonably accessible to the public. However, such restriction shall be made only in order to grant an exclusive or partially exclusive license in accordance with this subpart.

§ 1245.206 Exclusive and partially exclusive licenses.

(a) Domestic licenses.

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on NASA inventions: (i) 3 months after notice of the invention's availability has been announced in the **Federal Register**; or (ii) without such notice where NASA determines that expeditious granting of such a license will best serve the interests of the Federal Government and the public; and (iii) in either situation, specified in (a)(1)(i) or (ii) of this section only if:

(A) Notice of a prospective license, identifying the invention and the prospective licensee, has been published in the **Federal Register**, providing opportunity for filing written objections within a 60-day period;

(B) After expiration of the period in § 1245.206(a)(1)(iii)(A) and consideration of any written objections received during the period, NASA has determined that:

(1) The interests of the Federal Government and the public will best be served by the proposed license, in view of the applicant's intentions, plans, and ability to bring the invention to practical application or otherwise promote the invention's utilization by the public;

(2) The desired practical application has not been achieved, or is not likely expeditiously to be achieved, under any nonexclusive license which has been granted, or which may be granted, on the invention;

(3) Exclusive or partially exclusive licensing is a reasonable and necessary incentive to call forth the investment of risk capital and expenditures to bring the invention to practical application or otherwise promote the invention's utilization by the public; and

(4) The proposed terms and scope of exclusivity are not greater than reasonably necessary to provide the incentive for bringing the invention to practical application or otherwise promote the invention's utilization by the public;

(C) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the country in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with the antitrust laws; and

(D) NASA has given first preference to any small business firms submitting plans that are determined by the agency to be within the capabilities of the firms and as equally likely, if executed, to bring the invention to practical application as any plans submitted by applicants that are not small business firms.

(2) *Conditions.* In addition to the provisions of § 1245.204, the following terms and conditions apply to domestic exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall reserve to NASA the right to require the licensee to grant sublicenses to responsible applicants, on reasonable terms, when necessary to fulfill health or safety needs.

(iii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iv) The license may grant the licensee the right of enforcement of the licensed patent pursuant to the provisions of Chapter 29 of Title 35, United States Code, or other statutes, as determined appropriate in the public interest.

(b) Foreign licenses.

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on a NASA invention covered by a foreign patent, patent application, or other form of protection, provided that:

(i) Notice of a prospective license, identifying the invention and prospective licensee, has been published in the **Federal Register**, providing opportunity for filing written objections within a 60-day period and following consideration of such objections;

(ii) NASA has considered whether the interests of the Federal Government or United States industry in foreign commerce will be enhanced; and

(iii) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the United States in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with antitrust laws.

(2) *Conditions.* In addition to the provisions of § 1245.204, the following terms and conditions apply to foreign exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iii) The license may grant the licensee the right to take any suitable and necessary actions to protect the licensed property, on behalf of the Federal Government.

(c) *Record of determinations.* NASA shall maintain a record of determinations to grant exclusive or partially exclusive licenses.

Procedures

§ 1245.207 Application for a license.

An application for a license should be addressed to the Patent Counsel at the NASA installation having responsibility for the invention and shall normally include:

(a) Identification of the invention for which the license is desired, including the patent application serial number or patent number, title, and date, if known;

(b) Identification of the type of license for which the application is submitted;

(c) Name and address of the person, company, or organization applying for the license and the citizenship or place of incorporation of the applicant;

(d) Name, address, and telephone number of representative of applicant to whom correspondence should be sent;

PATENT LICENSING REGULATIONS

(e) Nature and type of applicant's business, identifying products or services which the applicant has successfully commercialized, and approximate number of applicant's employees;

(f) Source of information concerning the availability of a license on the invention;

(g) A statement indicating whether applicant is a small business firm as defined in § 1245.202(c);

(h) A detailed description of applicant's plan for development or marketing of the invention, or both, which should include:

(1) A statement of the time, nature and amount of anticipated investment of capital and other resources which applicant believes will be required to bring the invention to practical application;

(2) A statement as to applicant's capability and intention to fulfill the plan, including information regarding manufacturing, marketing, financial, and technical resources;

(3) A statement of the fields of use for which applicant intends to practice the invention; and

(4) A statement of the geographic areas in which applicant intends to manufacture any products embodying the invention and geographic areas where applicant intends to use or sell the invention, or both;

(i) Identification of licenses previously granted to applicant under Federally owned inventions;

(j) A statement containing applicant's best knowledge of the extent to which the invention is being practiced by private industry or Government, or both, or is otherwise available commercially; and

(k) Any other information which applicant believes will support a determination to grant the license to applicant.

§ 1245.208 Processing applications.

(a) Applications for licenses will be initially reviewed by the Patent Counsel of the NASA installation having responsibility for the invention. The Patent Counsel shall make a preliminary recommendation to the Director of Licensing, NASA Headquarters, whether to: (1) grant the license as requested, (2) grant the license with modification after negotiation with the licensee, or (3) deny the license. The Director of Licensing shall review the preliminary recommendation of the Patent Counsel and make a final recommendation to the NASA Assistant General Counsel for Patent Matters. Such review and final recommendation may include, and be based on, any additional information obtained from applicant and other sources that the Patent Counsel and the Director of Licensing deem relevant to the license requested. The determination to grant or deny the license shall be made by the Assistant General Counsel for Patent Matters based on the final recommendation of the Director of Licensing.

(b) When notice of a prospective exclusive or partially exclusive license is published in the **Federal Register** in accordance with § 1245.206(a)(1)(iii)(A) or § 1245.206(b)(1)(i), any written objections received in response thereto will be considered by the Director of Licensing in making the final recommendation to the Assistant General Counsel for Patent Matters.

(c) If the requested license, including any negotiated modifications, is denied by the Assistant General Counsel for Patent Matters, the applicant may request reconsideration by filing a written request for reconsideration within 30 days after receiving notice of denial. This 30-day period may be extended for good cause.

(d) In addition to, or in lieu of requesting reconsideration, the applicant may also appeal the denial of the license in accordance with § 1245.211.

§ 1245.209 Notice to Attorney General.

A copy of the notice provided for in §§ 1245.206(a)(1)(iii)(A), and 1245.206(b)(1)(i) will be sent to the Attorney General.

§ 1245.210 Modification and termination of licenses.

Before modifying or terminating a license, other than by mutual agreement, NASA shall furnish the licensee and any sublicensee of record a written notice of intention to modify or terminate the license, and the licensee and any sublicensee shall be allowed 30 days after such notice to remedy any breach of the license or show cause why the license should not be modified or terminated.

§ 1245.211 Appeals.

(a) The following parties may appeal to the NASA Administrator or designee any decision or determination concerning the grant, denial, interpretation, modification, or termination of a license:

(1) A person whose application for a license has been denied;

(2) A licensee whose license has been modified or terminated, in whole or in part; or

(3) A person who timely filed a written objection in response to the notice required by §§ 1245.206(a)(1)(iii)(A) or 1245.206(b)(1)(i) and who can demonstrate to the satisfaction of NASA that such person may be damaged by the Agency action.

(b) Written notice of appeal must be filed within 30 days (or such other time as may be authorized for good cause shown) after receiving notice of the adverse decision or determination; including, an adverse decision following the request for reconsideration under § 1245.208(c). The notice of appeal, along with all supporting documentation should be addressed to the Administrator, National Aeronautics and Space Administration, Washington, DC 20546. Should the appeal raise a genuine dispute over material facts, fact-finding will be conducted by the NASA Inventions and Contributions Board. The person filing the appeal shall be afforded an opportunity to be heard and to offer evidence in support of the appeal. The Chairperson of the Inventions and Contributions Board shall prepare written findings of fact and transmit them to the Administrator or designee. The decision on the appeal shall be made by the NASA Administrator or designee. There is no further right of administrative appeal from the decision of the Administrator or designee.

§ 1245.212 Protection and administration of inventions.

NASA may take any suitable and necessary steps to protect and administer rights to NASA inventions, either directly or through contract.

§ 1245.213 Transfer of custody.

NASA having custody of certain Federally owned inventions may transfer custody and administration in whole or in part, to another Federal agency, of the right, title, or interest in any such invention.

§ 1245.214 Confidentiality of information.

Title 35, United States Code, section 209, provides that any plan submitted pursuant to § 1245.207(h) and any report required by § 1245.204(b)(6) may be treated by NASA as commercial and financial information obtained from a person and privileged and confidential and not subject to disclosure under section 552 of Title 5 of the United States Code.

James M. Beggs,

Administrator.

October 15, 1981.

[FR Doc. 81-31609 Filed 10-30-81; 8:45 am]

BILLING CODE 7510-01-M

1. Report No. NASA SP-7039 (41)		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle NASA Patent Abstracts Bibliography A Continuing Bibliography Section 2: Indexes (Supplement 41)				5. Report Date July 1992	
				6. Performing Organization Code JTT	
7. Author(s)				8. Performing Organization Report No.	
9. Performing Organization Name and Address NASA Scientific and Technical Information Program				10. Work Unit No.	
				11. Contract or Grant No.	
12. Sponsoring Agency Name and Address National Aeronautics and Space Administration Washington, DC 20546-0001				13. Type of Report and Period Covered Special Publication	
				14. Sponsoring Agency Code	
15. Supplementary Notes Section 2: Indexes					
16. Abstract A subject index is provided for over 5200 patents and patent applications for the period May 1969 through June 1992. Additional indexes list personal authors, corporate authors, contract numbers, NASA case numbers, U.S. patent class numbers, U.S. patent numbers, and NASA accession numbers.					
17. Key Words (Suggested by Author(s)) Bibliographies Patent Policy NASA Programs			18. Distribution Statement Unclassified - Unlimited Subject Category - 82		
19. Security Classif. (of this report) Unclassified		20. Security Classif. (of this page) Unclassified		21. No. of Pages 582	
				22. Price * A25/HC	

National Aeronautics and
Space Administration
Code JTT
Washington, D.C.
20546-0001

Official Business
Penalty for Private Use, \$300



National Aeronautics and
Space Administration

Washington, D.C. **SPECIAL FOURTH CLASS MAIL**
20546 **BOOK**

L2 001 SP7039P2 920730S090569A
NASA
CENTER FOR AEROSPACE INFORMATION
ACCESSIONING DEPT
P O BOX 8757 BWI ARPRT
BALTIMORE MD 21240

Postage and Fees Paid
National Aeronautics and
Space Administration
NASA-451

Official Business
Penalty for Private Use \$300



POSTMASTER: If Undeliverable (Section 158
Postal Manual) Do Not Return